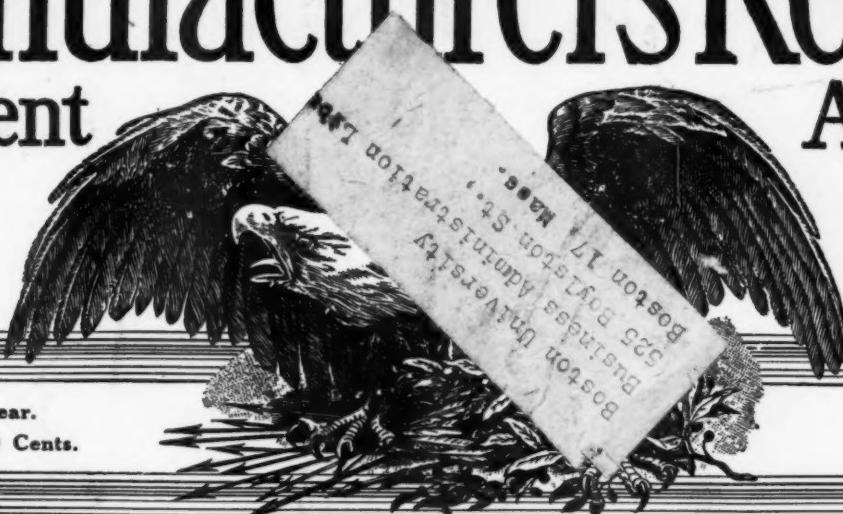


Manufacturers Record

Exponent America



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Baltimore, Md.
JULY 22, 1926

Southern Labor for Industrial Development.

With a population almost wholly of native American stock, the South has an asset of immeasurable value to itself and to the nation. In this population, now approaching the forty-million mark, with an American unity of thought and purpose and speaking a common language, there is found the best labor supply in the country today. Aside from its advantages of raw materials, power, climate, etc., manufacturers, harassed by unstable labor and the demands of radical labor unions, are turning southward, for they are beginning to appreciate more and more the stability of the South's labor supply.

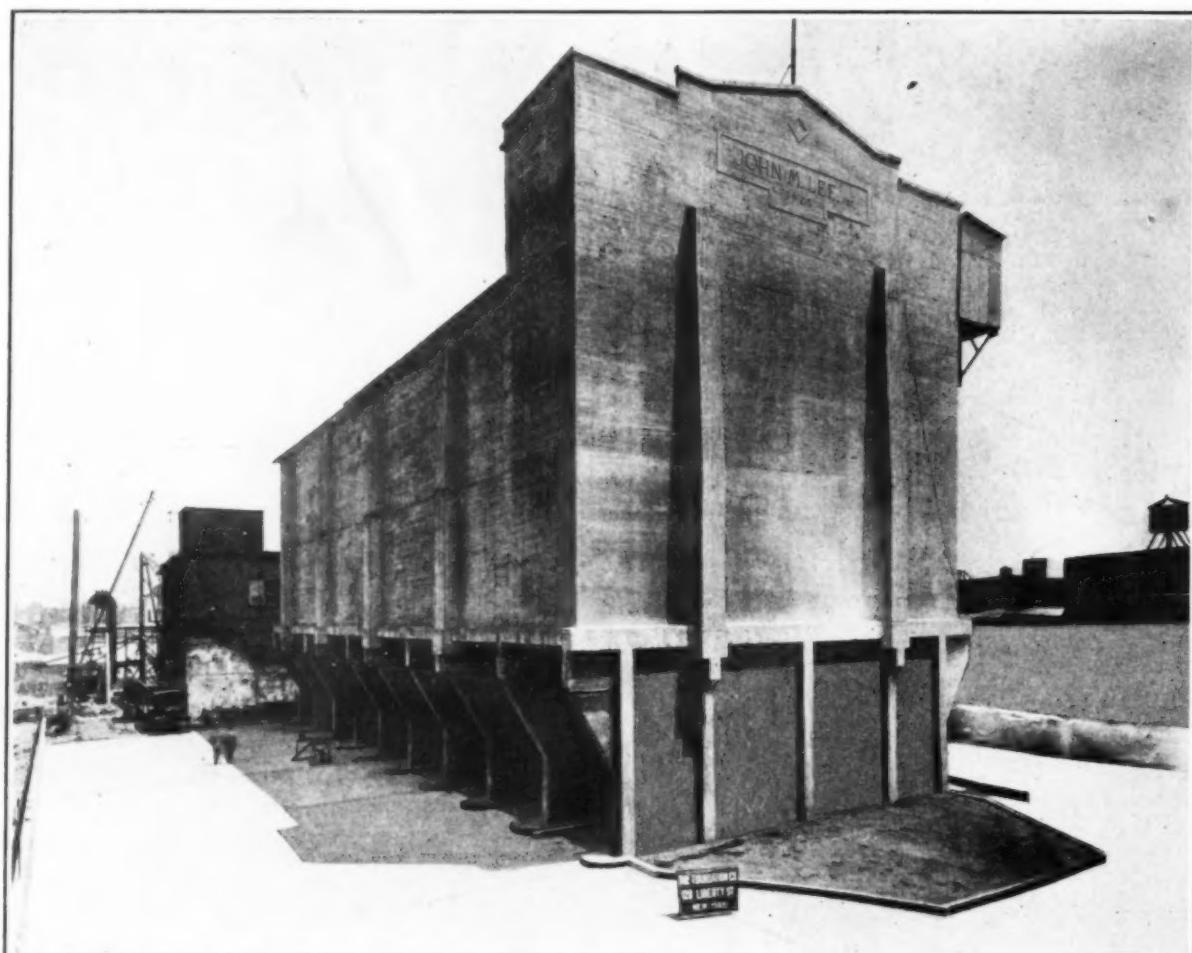
On this point J. E. Sirrine & Co., engineers, of Greenville, S. C., in a recent advertisement in the Manufacturers Record, had this to say of Southern labor:

"The labor supply of the South is made up almost entirely of English-speaking, native Americans. They bring to their work—whatever it may be—the almost undiluted characteristics and traditions that have come down to them through generations of pioneer stock."

"They are, in short, an important asset to the industrial future of this country."

This was first demonstrated in the beginning of the development of Southern cotton manufacturing a generation ago, when the people of the mountain districts were given an opportunity to loose the chains of poverty with which they had been enslaved for so long. These people, inherently proud even in poverty, possessed a keen sense of honor, and this character is reflected in their intense patriotism and loyalty to their employers. Furthermore, they have demonstrated that they are the equal in skill to any other high-class labor in the world.

As in the past, there will continue to be an abundant supply of Southern labor so long as children are born and grow into manhood and womanhood.



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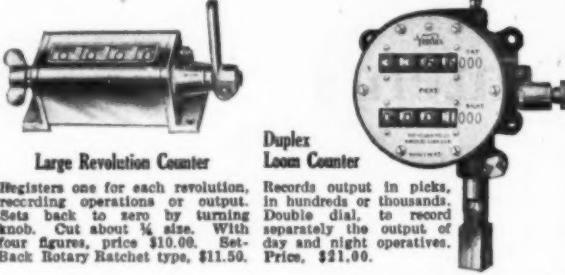
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Vol. XC No. 3
Weekly

BALTIMORE, JULY 22, 1926.

{Single Copies, 20 Cents.
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Quarterly Tax Payment Proposition Widely Approved.

THE suggestion of the MANUFACTURERS RECORD a few weeks ago, that tax payments to municipalities and to states should be made quarterly, as is the case with the Federal income taxes, instead of annually, has struck a responsive chord throughout the entire country. The subject is being widely discussed in many newspapers, and letters of commendation have come to us from many sources. Indicative of the widespread interest which has been aroused on the subject, we give a few extracts from editorials and from letters received in favor of this movement.

No serious objection has yet, so far as we have seen, been made to the proposition, but, on the other hand, it is recognized that quarterly payments of taxes would greatly ease the burden and be of enormous value to taxpayers of all classes. The subject is one which every commercial organization interested in the welfare of its community, business men and the city and state officials generally, can very well afford to discuss in order to bring out every point of strength or weakness. Some letters and editorial comments follow:

Mayor Robert M. Hull of Savannah suggests that taxes be payable in three installments instead of four. He writes:

"I beg to advise that the city of Savannah now allows its taxes to be paid quarterly, and if paid on or before the 20th of the month following the end of the quarter, a discount of 5 per cent is allowed.

"I believe, however, that it would be better to make the taxes payable in THIRDS, rather than QUARTERS, for the reason that the last quarter lapses over into the following year and it is very difficult to make an intelligent financial statement and one which the public can easily understand unless all of the taxes are paid within the current year.

"It is possible that Savannah may go on the basis of thirds, rather than quarters, within the next year or two, still allowing a discount for prompt payment."

So favorably was the Chamber of Commerce of Burlington, N. C., impressed by the proposition that it plans to present it to the Board of Aldermen and to urge its adoption in that city. That announcement is made in the following letter from H. B. Skinner, manager of the Chamber of Commerce:

"Congratulations on the stand that is being taken in regard to the matter of quarterly payment of taxes. This is another of the outstanding accomplishments of the MANUFACTURERS RECORD, and is one that will do a lot toward helping the collection of taxes, especially in manufacturing and industrial towns and cities.

"Recently, Burlington granted an extension of time on tax payment date, so that some of the textile mills and other industries might meet the obligation in spite of the poor conditions. The move was a good one; it would have been unnecessary had we had a recognized quarterly payment plan.

"As a result of the publicity in the MANUFACTURERS RECORD,

we have taken up this matter, and it is meeting with a great deal of favor from entire city and manufacturing community. At the present time, the matter of the quarterly payment of taxes is before the civic committee of the Chamber of Commerce for study prior to presenting it in concrete form to the Board of Aldermen for adoption. Many of the aldermen have already been questioned as to their attitude in the matter and feel that it would be a fine thing.

"You will hear from us again on this matter at a future date, and at that time we are of the opinion that we will also present to you a record of the adoption of the plan for this industrial center."

The Manufacturers Association of San Antonio, Texas, writes:

"From copy of the San Antonio Express we mailed you a few days ago you will see you have *started something* which took ready hold in San Antonio.

"At the last meeting of our board of directors, Charles Graebner, our treasurer, took up the matter of your editorial. He was appointed chairman of a committee to look into the question further and report to our next directors' meeting.

"Any further data you can give us will be very acceptable at this time.

"Your proposals have created great interest here, but we are unwilling to act until we know the disadvantages as well as the advantages."

H. H. Bacon of A. S. Bacon & Sons, lumber manufacturers of Savannah, Ga., writing on this subject says:

"I read with interest your articles on quarterly payment of taxes.

"For your information will state that the city of Savannah has had this method of paying taxes in vogue for a number of years. Taxes are paid quarterly and 5 per cent discount is allowed for payment on or before the 20th of the month, designating each quarter, and from my observation it has never entailed any extra expense to the city to handle the taxes in this manner.

"Chatham county, in which this city is located, also employs the same method of paying taxes quarterly, and they allow a discount of 10 per cent. As the county taxes cannot be calculated in advance for an exact amount, an approximate amount is charged for the first three quarters, and on the last quarter the exact balance is reached, at the time the state taxes are paid, which is December 20.

"This method of collecting taxes has been found advantageous to both the city and county in getting their money quarterly, and it has also proved advantageous to the property owners to pay in this manner."

Thomas B. Collier of Collier & Collier, attorneys, Memphis, Tenn., writes:

"For many, many years I have been a reader of your great paper and student of some of your special articles and subjects.

"The most striking editorial of late years is the front-page suggestion in the issue of June 24 with reference to the quarterly payment of city, county and state taxes.

"I was so much impressed with this plan of payment and

your argument and proof of its benefits that I introduced a resolution in our local City Club at its last meeting, seeking to get its endorsement of a proposed amendment to our state statute on the assessment and collection of taxes. I am sending you herein copy of the City Club Bulletin of this week, with your editorial quoted in full and the short resolution under discussion. I shall keep you posted as to the result of our deliberations, and hope that Tennessee will be the first state, Shelby the first county and Memphis the first city to adopt so wise a plan for the good of our people.

"I might add that immediately after the presentation of this subject last week our local afternoon paper, the Memphis Press, also quoted your editorial in full, placing same on its editorial page. If you feel so disposed, it might be a good idea to write the editor of the Memphis Press, acknowledging the recognition, and another letter to C. C. Hanson, president of the City Club, asking favorable action along these lines. Such correspondence will help liven up the discussion before the club, and induce our local papers to renew their comments.

"With best wishes in your long-time and valuable service in the development of the South, I remain, etc."

D. W. Rowe, realtor, of McAllen, Texas writes:

"As a subscriber to your magazine I have been following, with a great deal of interest, your articles and the answers and comments by the different papers on the quarterly plan of paying state, county and city taxes.

"I thoroughly believe that you are on the right road and that this is a matter that should be taken up by the chambers of commerce, real estate boards and various organizations of our cities and be put into effect.

"In my judgment there are many advantages to this plan and one in particular which I have not seen mentioned and which I believe will offset, to a great extent, the one objection of extra expense to the tax collector. Not only will it be much easier for the average taxpayer to meet his obligation, but it will distribute the money through the year and overcome many objections to the one-year plan. I believe the distribution of collections on that plan could be handled by the tax collector with his regular force instead of having to put on a large force once a year of extra help, many of whom are inexperienced.

"I am getting more out of your magazine for my line of business than any other source of information which I have."

Under the heading, "A Good Suggestion," the Durham (N. C.) Morning Herald says:

"The MANUFACTURERS RECORD is always bold and always advocating those things which, in its opinion at least, are for the best interests of the South. Quite frequently we do not agree with its views, especially its political views, because we believe it has by its association or environment got a slant on a number of matters that are not in line with our views, nor do we think they are for the best interests of the people. But, that's neither here nor there. There are many times when we find ourselves in full accord with its views, and one of those times, we are glad to say, is right now, and the cause is the MANUFACTURERS RECORD's advocacy of quarterly payment of the county and state taxes. We are especially interested in the phase of it relating to city taxes. Durham is now operating under the council-manager plan of city government, and is getting highly satisfactory results. The city is on a business basis that is pleasing to business men. Increased and impartial service and many savings have been some of the outstanding results experienced by the city under that modern form of government. For that reason Durham is in a position to adopt the quarterly payment plan and carry it on without difficulty. The machinery is already in operation, and needs only some enlargement and alterations to take on the quarterly payment plan and carry it along without much inconvenience to the business department of the city, and without additional cost of consequence.

"Under the antiquated form of county government it would be more difficult here and in the other counties of this state, but it is hoped and believed that after the next session of the general assembly there will be available more modern methods of conducting the business of the counties throughout the state. Then they, too, will be able to adopt the quarterly payment plan without trouble.

"As we are informed, before either city or county can adopt that plan there will have to be certain legislation

secured, which, however, should not offer serious obstacle once the people of the city and county make up their minds they want to go on the quarterly payment basis.

"The MANUFACTURERS RECORD has started something worth while in its advocacy of the quarterly payment plan for taxes. The Federal Government is using that plan with entire satisfaction. It would afford the same sort, and probably more, satisfaction to the taxpayers of cities, counties and states.

"After publishing the comments it had received, the MANUFACTURERS RECORD truthfully says: 'We do not think we have ever made a better suggestion for the benefit of the people at large than this movement inaugurated by us for quarterly payments.'

"We are of the same opinion, and would urge the Baltimore publication to keep hammering on it until the plan becomes in general use throughout the country, and especially in the South."

Should Work Satisfactorily With Local Taxes As Well As Federal.

[From the Daily Telegram, Clarksburg, W. Va.]

The MANUFACTURERS RECORD, which believes it was the first publication to suggest the quarterly payment method for Government taxes, is now editorially urging its adoption by cities, counties and states.

It is admitted this would involve a little additional book-keeping, but it believes if the books were properly adjusted this increased labor would not be sufficiently burdensome to make any material difference in the expenses of tax collections.

This would be of inestimable value to millions of people, the MANUFACTURERS RECORD believes. If the money came in quarterly, there never would be a big surplus lying idle to tempt city and state officials to spend too freely just because they had it in hand, it says.

That, indeed, is an impressive point. As this newspaper has many times observed, and ardently believes, one of the greatest needs in this country today is the application of the same kind of economy in local governments as there has been in the Federal Government.

There is one thing to be said about this suggestion. If the plan has worked out satisfactorily with Federal tax payments, it ought to work out similarly with the rest.

Anyway, there could be little objection on the part of those who desire to pay their taxes in a lump, for that privilege could be exercised at any time, as is the case with the Federal tax payments.

Quarterly Payments "Would Help Relieve Annual Congestion."

[From the San Antonio Express.]

Should city, county and state taxes, like Federal income taxes, be made payable in quarterly installments? At its latest meeting the San Antonio Manufacturers Association brought up this question, which now is attracting attention over the country.

The discussion has been revived generally by the MANUFACTURERS RECORD (Baltimore), which claims credit for having first suggested that method of collecting the Federal tax. As applied to municipalities, however, the idea is not new; the system has been employed in Tallahassee, Fla., Richmond, Va., and other cities. Its advocates report that the delinquent list thereby is reduced appreciably. It also provides the municipality with ready cash at more frequent intervals, so that less borrowing is necessary. On this point B. H. Bridges, Tallahassee city auditor, writes:

"The city of Tallahassee finances itself absolutely on a cash basis, and has not paid a cent on borrowed money in two years."

That system not only saves the taxpayers interest charges, of course, but it encourages economy by doing away with pledging the revenue before it is collected. Like individuals, municipalities are more liberal when it comes to spending anticipated funds. Any device which means genuine economy in this regard is to be welcomed.

It may be argued that the taxpayer now has two or three months in which to meet his city tax bill, and even longer for his other taxes, but the majority defer this until the last week or even last day grace. Quarterly payments would aid in relieving the annual congestion, even if the plan had nothing else to recommend it.

"No Good Argument Against the Plan."

[From the Beaumont Enterprise.]

Referring to the suggestion now being urged by the MANUFACTURERS RECORD that states, counties and municipalities generally adopt the theory of quarterly payment of all taxes just as the Federal Government collects the income tax, the Fort Worth Star-Telegram believes no good argument can be brought to bear against it by either the tax collector or the taxpayer.

"The system offers inestimable benefit to the taxpayers," says the Star-Telegram, "and the money coming in quarterly is just as serviceable for the use of the Government for whose current support the tax is levied as if it were paid in a lump sum at the beginning of the fiscal year. The employment of the system involves a little additional bookkeeping, but the extra cost of collection—and it should be small if the books are properly adjusted—is more than counterbalanced by the reduction in the amount of taxes which goes delinquent because of the difficulty of making full-year payments at one time."

There are, indeed, many arguments in favor of the quarterly payment plan. The chief obstacle, however, is habit. It will take some time and no little patience and persistence to make the plan popular and workable. It is difficult to get people out of the ruts in which they have moved for years. Taxes are disagreeable from any point of view, and all our inherent distaste for paying taxes would be readily turned against the method rather than against the actual payment and the need for it.

In Beaumont we tried the semi-annual plan of paying taxes and it didn't work very well, not well enough to encourage its continuance. Of course, our test was not a fair one. A city administration some time back merely issued a call for the people to pay half their taxes in July and thus lessen the burden at the end of the year and also help the city out of financial difficulties. This involved the payment-in-advance idea, and that, naturally, was something else again.

The governments would necessarily have to adjust themselves to this new inflow of the revenue, but that would entail a bit of caution and economy that would in itself be very desirable. There seems to be no doubt that the taxpayers would welcome the new plan and be pleased with it after they became used to it.

Quarterly Tax Payment Plan "Found to Work Well."

[From the Charleston (S. C.) Post.]

Claiming, in a recent issue, the first published suggestion, made in 1917, that the Government, to relieve income taxpayers, should accept quarterly payments—a plan which was later instituted by Congress and has been followed with much satisfaction—The MANUFACTURERS RECORD expresses the belief that the system might be adopted by cities, counties and states with much benefit to taxpayers.

"Which city in the country," it asks, "or which state will be the first to adopt so wise a plan for the good of its people?"

As to which state will be the first, that may be an open question, but, regarding cities, there is no opportunity for any city which has not already adopted the system becoming the first. Quarterly collection of municipal taxes has been the rule in Charleston for more than a quarter of a century at the least. The plan has been found to work well and the MANUFACTURERS RECORD makes no mistake in recommending its adoption by tax-collecting authorities generally, but, among cities, the distinction of being the pioneer institution of such a system is not now to be won. Whether or not Charleston is the only or was the first municipality to adopt such a plan we do not know, but its operation in this city has become a fixed feature of administration.

Applied to collection of state taxes, the system might serve to put an end to the exceedingly bad practice of the extension of time for payment of taxes so frequently employed in South Carolina.

The contention that payment of the annual taxes falls as a hardship at times of depression is used to extend the time for payment of such obligations, in the mistaken persuasion that mere postponement for a few weeks of the day of reckoning brings actual relief, as if there were any assurance that a later date would find the taxpayer in better rather than in worse financial condition. If the payment of taxes should be distributed through the year by quarters,

this argument would be notably weakened, the total of funds on hand would be smaller and the hazard of carrying in banks minimized, and the temptation to speculate upon them by letting to the highest bidding bank reduced, and the necessity for negotiating emergency loans toward the close of the year, pending payments of the next year's taxes, would not recur so regularly. The system which has proved so efficacious with the Federal Government in the past few years and with the municipal administration of Charleston for an extended period is well worth considering for adoption and the suggestion of the MANUFACTURERS RECORD is timely.

Quarterly Payments of City and County Taxes.

[From the Smithfield (N. C.) Herald.]

Taxes, or anything pertaining to taxes, constitutes an interesting subject at all times, but particularly of interest are any suggestions as to how to pay them. The MANUFACTURERS RECORD, in an editorial on its front cover of June 24, gives what seems to be a very practical plan—that of paying taxes in quarterly installments instead of in a lump sum annually.

This magazine was the first to suggest that income tax payments to the Federal Government be made quarterly, and Congress afterward passed a bill allowing the plan without penalty. If it is proving helpful in relieving income taxpayers, it seems reasonable that it would be helpful to city and county taxpayers. In advocating the plan the MANUFACTURERS RECORD says:

"The system which the Government adopted could, we believe, with equal service to taxpayers be adopted everywhere by cities, counties and states. It is true that this would involve a little additional bookkeeping, but if the books were properly adjusted this increased labor would not be sufficiently burdensome to make any material difference in the expenses of tax collection. It would be of inestimable value to millions of people, farmers and business men and property owners generally if when their tax bill was rendered they had the privilege of paying it in quarterly installments, just as income taxpayers do to the Federal Government.

"Under this system there would be less strain and stress upon taxpayers. The money would come during the year as needed, whereas under the present system of annual payments a heavy burden is placed upon taxpayers, while the city or the state collects the full amount and simply carries it on deposit in the various banks, paying it out during the course of the year. Perhaps some favored banks, which secure large deposits of city or state money, paying therefor a very small rate of interest, would raise objections to such a plan. And yet we are sure no broadminded, broadvisioned banker, appreciating how such a system would benefit the people of his community, would presume to oppose it.

"There are other reasons in favor of the plan. One is that if the money came in only quarterly there would never be a great surplus lying idle to tempt city and state officials to spend money too freely just because they had it on hand. We believe that this system would result in a closer scrutiny of all expenditures and more careful husbanding of resources, and would lift from millions of people a heavy burden in trying to pay their taxes in full at one time, or else run the risk of having their property sold under a tax sale."

A REMARKABLE RECORD OF FREEDOM FROM ACCIDENTS.

SHERMAN PERRY, assistant to director of publicity of the American Rolling Mill Company of Middletown, Ohio, writes the MANUFACTURERS RECORD as follows:

"The Zanesville plant of the American Rolling Mill Company has made a phenomenal record in its safety work. In the entire plant, employing 800 men, there have been only three lost-time accidents since January 1. In the 13 hot mills, making light-gauge sheets, where the frequency of accidents is generally high, not one accident has occurred during the year—an outstanding record for hot mills."

The Florida Situation and the Future of That State.

LESS than a quarter of a century ago there was a wild speculation in Baltimore in the organization of trust companies. One company after another was floated, and apparently every man, woman and child began to speculate wildly in trust company stocks. One company organized at that period with a proposed capital and surplus of \$4,500,000 had over \$18,000,000 offered, and such was the scramble for its stock that before a single share could be issued prospective allotments of the right to subscribe were sold on the Baltimore Stock Exchange at a premium of \$80 a share.

Soon thereafter one of the oldest and supposedly most substantial trust companies in the city, whose list of directors included some of the foremost millionaires of Baltimore and some of New York, announced its failure. The closing of its doors created a wild panic; a rush was made by the depositors of practically every other trust company in the city. At that time the editor of the MANUFACTURERS RECORD was a director in the company to which \$18,000,000 had been offered for the \$4,500,000 of stock to be sold. Night after night the directors sat behind closed doors and with darkened windows, in order to make their plans to meet the expected run on the following day.

The price of the securities of these trust companies went temporarily to smash, and a large proportion of the people in Baltimore for the time being seemed to have lost their head as to the safety of all financial institutions. In the midst of the nation-wide panic of 1907 the writer asked the cashier of the leading national bank of Baltimore, "How are things in New York today? The reply was "Hell has broken loose in New York." But, everything in New York had not gone to perdition, nor were all the banks and trust companies in Baltimore unsafe, as panicky conditions had made many people feel.

When the mob spirit breaks loose in financial, as well as in lynching matters, it stops at nothing in the attempt to carry out its wild desires. Many an innocent man has been lynched merely because the mob spirit had broken loose and sanity was not in control.

Apparently the mob spirit, lacking all judgment, all sense of honor and intelligence, seems to have broken loose in many parts of this country in regard to conditions in Florida; and what is true in this respect of Florida may perhaps be true at any time of any other state in which there has been much activity or much speculation, exactly as was the case when Baltimore had its trust company panic.

When the great real estate speculation in Kansas City some years ago collapsed, a Kansas City man then living in Baltimore received a telegram from a prominent business man of his city in which it was said: "Things are popping right and left." But despite their popping, no intelligent man lost faith in Kansas City or its future, and Kansas City is today one of the great outstanding marvels of American development.

In the eighties, when the real estate boom, sweeping from Kansas to the South, struck Birmingham, real estate speculation became far more rampant than it was at any time during last year in Florida. The stock of the Elyton Land Company, which had founded Birmingham, advanced from about \$15 a share to \$4500 a share, and with a paid-in capital of only \$50 a share the company paid out dividends of 2300 per cent during one year, or really at the rate of 4600 per cent on the capital paid in. The collapse of the real estate speculation in that city did not halt the permanent development of Birmingham, which has become one of the world's outstanding industrial centers, destined more and more largely to control the price of iron and steel

for the world; and it has been well said that that city or that section which can produce iron and steel at the lowest cost will dominate the finance and commerce of the world.

Today in many parts of the country there is a mob spirit against Florida as stupid, as unjustified, as vicious as is the mob spirit of a lynching crowd which seeks a victim for its rage, whether the victim be innocent or guilty.

Three letters to the MANUFACTURERS RECORD coming in one mail from Florida indicate how this spirit is at work. One contains a dispatch from Jacksonville to the papers of Florida which makes the statement that a Baltimore financial company had refused to accept checks drawn on any Florida bank. That dispatch, dated at Jacksonville, July 12, is as follows:

"For information of Floridians generally, and especially those who have business with finance concerns, the Florida State Chamber of Commerce announces the Mortgage and Acceptance Corporation, Baltimore, Md., which heretofore has conducted substantial business in Florida and which maintains Florida headquarters in Jacksonville, an office at Miami, and agents in other cities in the state, has sent the following notice to Floridians whose paper it holds:

"Owing to the unfortunate development in the Florida banking situation, we are forced to discontinue accepting checks drawn on any Florida bank.

"Remit by P. O. or Express M. O.

"Mortgage and Acceptance Corporation, Baltimore, Md."

"The chamber declared any comment it might make with reference to the manner in which Floridians should regard the notice of the Baltimore concern would be 'superfluous.'"

Fortunately, this company has seen the folly of such actions and has withdrawn from that untenable position.

Commenting on that dispatch, which was enclosed with his letter, S. H. Moore of the Tampa-West Coast Realty Company, writes the MANUFACTURERS RECORD as follows:

"You are always so fair, and such a great friend of Florida, that we feel free to call your attention to the enclosed clipping, and thought maybe there would be something that you could do in part to counteract such an action.

"It seems to us to be a very unreasonable procedure, and certainly an entirely unnecessary one.

"If a check that was sent to that company was unpaid on account of a bank failure, or any other reason, their position would automatically be back to where it was before the check was issued, so why this stab in the back at Florida?

"It is not at all unlikely that that company might have a check returned to it, once in a while, unpaid by the bank on which it was drawn, account of 'insufficient funds,' or some other of the many reasons for which banks do not pay checks drawn on them.

"Florida certainly never expected any unfriendliness of this kind from Baltimore.

"Florida had \$17,655,317 in its state treasury July 1; and Florida has no bonded indebtedness; neither has it any state income or inheritance tax, both prohibited by our constitution; and we exempt from taxation household goods and personal property to the amount of \$500; and our state tax rate for 1926 has just been reduced 29 per cent.

"Tampa street cars hauled more than 2,500,000 more passengers the first six months of 1926 than the first six months of 1925; 300,000 more in June, 1926, than in June, 1925.

"Give that a thought."

The same mail that brought Mr. Moore's letter brought from another business man of that city a statement of the

condition of the Exchange National Bank of Tampa at the close of business on June 30, 1926, which showed the following statement of resources and liabilities:

RESOURCES.	
Loans	\$9,505,021.51
United States bonds.....	1,350,600.00
Municipal and corporation bonds.....	1,738,469.59
Stock in Federal Reserve Bank.....	37,500.00
Banking house, furniture and fixtures.....	340,688.71
Other real estate.....	118,200.00
Overdrafts	264.22
Cash on hand and in banks.....	3,767,060.43
Total resources	\$16,857,804.46

LIABILITIES.	
Capital stock	\$500,000.00
Surplus and undivided profits.....	947,652.83
Reserved for taxes, etc.....	28,320.60
Interest collected but not earned.....	69,993.50
Circulation	203,897.50
Bills payable	None
Deposits	15,107,940.03
Total Liabilities	\$16,857,804.46

This statement, indicating the financial strength of that institution, is typical of the kind of statement that can be made by a very large proportion of the banks of Florida, showing a financial stability which should put to shame any such suggestion as that of the Mortgage and Acceptance Company of Baltimore declining to receive checks from any Florida banks, an action probably taken without due thought, and which the company, as stated, has since rescinded. This only serves, however, to show the unwisdom of such hasty action.

The third letter which came in that mail from Florida was from John T. Larkin, of Miami, who, writing in regard to this widespread and vicious effort to belittle Florida, said:

"As a constant reader and admirer of your wonderful periodical, and as one who believes with you that the South is the land of the greatest possibilities today, I am writing a few lines which you may see fit to publish, in whole or in part.

"Why do we wage war on a state?

"For many months past, unfortunately, a barrage of everything that savors of knocking has gone forth from practically the entire country against the state of Florida. This war, it seems, was declared through envy and jealousy, the harboring of which always brings more disastrous results to the knocker than to the one knocked. It seems that not a stone has been left unturned to destroy Florida and give it a deep burial. But you can't bury a brother who is as much *alive* as you, or, in this case it seems, *more alive* than you. It must be remembered also that the population of Florida is largely composed of people from other states. Another peculiar situation was presented in that the sections of the country which were shipping automobiles, provisions and building materials to Florida so fast that the railroads throughout the state could not handle them seemed to be in the business also of knocking Florida the hardest. Many have knocked Florida because of failure to make big, quick profits on real estate investments. If I had the money, a speculative turn of mind, and had come to Florida for the sole purpose of taking back these profits, and had failed to realize them, then it's my misfortune, not a fault of Florida.

"Our grand old country is the most progressive, the most bountifully blessed and the most charitable on earth, and is composed of brotherly, co-operating states (that's the truth about them), and if 'what blesses one blesses all' and 'let us seek our own in another's good' have any good meat for thought in them, let's bury the knocks and propaganda and boost and pull as we never have. The eyes of the world are on the South, and Florida has had no small part in opening the eyes of the people to our year-round advantages and our limitless possibilities."

Last week the MANUFACTURERS RECORD gave particulars regarding an expenditure of \$10,000,000 that is being made by one electric power and light company in Florida in the building of a power plant to have an ultimate cost of \$5,000,000, the other \$5,000,000 to be expended in extension of lines and other activities. In the same issue was published the official announcement of a bakery com-

pany that it had let contracts for the building and equipment of four baking plants in Florida to cost \$2,000,000.

The Florida Power and Light Company, controlled by the Electric Bond and Share Company, one of the leading financial powers of the country, spent \$15,000,000 in extending its Florida operations last year, and is spending \$35,000,000 in continuing that work this year, one of its power plants alone, now under construction, to cost \$7,500,000, and to have an ultimate capacity of 268,000 horsepower.

The railroad empire builders of America, like Warfield of the Seaboard, Walters of the Atlantic Coast Line, the officials who succeeded Flagler in the management of his system, the Frisco system, and others, have for the last two years been pouring millions and tens of millions of dollars into the building of new lines and double-tracking existing lines, and vastly increasing their facilities for handling Florida traffic.

The men who are putting these millions into electric power and light plants, into railroad construction, into vast cement plants, into bakeries and into industrial interests of many kinds are not visionary men. They rank among the foremost and most far-seeing capitalists and empire builders which America has produced. They were not moved in the beginning by the real estate operations of last year, nor are they in the slightest deterred by the fortunate slump which has taken place in real estate and town lot speculation in Florida. It was, indeed, fortunate that the wild speculation in town lots which prevailed in Florida last summer has had a reaction, just as the wild boom in stocks of Baltimore financial companies years ago, and in real estate in Kansas City, Birmingham and elsewhere had a reaction; for too many people in each case had come to believe that all they had to do was to buy a few shares of stocks, or town lots, and grow suddenly rich overnight. But to suppose that Florida's real development is going to be checked or halted by this reaction in town lot speculation is as absurd as it was to suppose in the Wall Street speculation of 1907, when the banker said hell had broken loose in New York, that all American prosperity would end; or that the collapse of the trust company stock inflation in Baltimore meant the collapse of all Baltimore financial institutions; or that the real estate halting in Kansas City and Birmingham meant that those cities had been in any way permanently injured in their growth.

So far as Florida is concerned, and we are centralizing the thought upon Florida because that is the state which at the moment is getting the largest amount of such denunciatory propaganda, no one need for a moment imagine that Florida's railroad, industrial and agricultural interests and the expansion of its commerce will not go forward more rapidly than ever before. The very lessening of town-lot speculation will concentrate the thoughts of the people upon the vast resources for upbuilding commerce and agriculture and industry, and out of this will come a larger degree of prosperity and progress than Florida has ever known.

This thought is strikingly presented in a letter of John H. Adams of Birmingham, who is thoroughly familiar with the mineral and industrial possibilities of Alabama, Georgia and Florida, to a friend in Palatka. Writing to him Mr. Adams said:

"I am persuaded that no other section in the world with as many advantages as it possesses has so few practical men within its borders as Florida. I mean by this, men who are fully alive to the natural advantages, outside of the 'everlastingly vaunted climate,' in the way of mineral and manufacturing resources and operations."

Florida has many natural advantages entirely outside of its climate, and these advantages will now more and more command the attention of serious-minded people, of great upbuilders, of the constructive forces that make for material progress; and he who thinks that Florida has in any way

whatever been permanently halted in its material progress has as little knowledge of the situation as the ruler of the lower world has of righteousness.

With a treasury which has cash on deposit of over \$17,000,000, without any bonded indebtedness against it, as is the condition of Florida, with vast expansion of its commercial interests, with the building of many harbors and the deepening of others, with the extension of railroad facilities, the establishment of new steamship lines and the building of new steamers to meet the increasing traffic of Florida, all added to that climate which Darwin Kingsley, president of the New York Life Insurance Company, a year ago said was "the gateway to Paradise," Florida's future as one of the greatest and richest states in the Union is certain.

Ten years ago President Warfield of the Seaboard Air Line wrote the editor of this paper that he expected to see Florida become the richest state in the Union; and though he has been building more miles of railroad in that state during the last two years than any other railroad has built in any other state in that period, Mr. Warfield has never changed his views as to the future of Florida.

Under such conditions any fear about the future of Florida or its financial interests is almost too absurd for discussion.

Another bank statement which came to the MANUFACTURERS RECORD after the foregoing was written is that of the Atlantic National Bank of Jacksonville, which shows remarkable financial strength. With deposits of over \$46,000,000, this bank had on June 30 "cash and due from banks" over \$20,000,000, with \$9,255,000 of United States bonds and certificates of indebtedness and other bonds and securities. The capital stock is \$2,000,000, of which \$350,000 was originally paid in and \$1,650,000 made out of earnings, with a surplus of \$500,000 and undivided profits of \$367,833.

THE FAITH AND FORCE THAT BUILD.

PRACTICAL co-operation, in its most businesslike phase, was conspicuously demonstrated recently at Palm Beach in a concerted movement by the merchants of Palm Beach county to reinforce the local banks at a time when a condition of stringency threatened to become somewhat embarrassing. As proclaimed at the time in a reassuring announcement to the people:

"Over 200 members of the Palm Beach County Merchants Association met at a specially called meeting to hear a report from the Chamber of Commerce and the officers of the Palm Beach County Merchants Association as to the banking situation in the city. The Merchants by unanimous vote agreed to support the banks and to GUARANTEE the deposits of ALL THEIR EMPLOYES in the banks of West Palm Beach that will open today until this stringency is over."

Appended to this promise of safety for, probably, many hundreds of deposit accounts were the names of more than 100 individuals, firms and corporations, including three newspapers. In effect, these business enterprises handed to their employes a blanket promissory note, backed by their honor and integrity and resources, payable under the most adverse contingencies, and fully as safe as a certified check.

Beyond this, moreover, these guarantors proved their faith in their community and its resources and stability—a faith sufficient to move mountains of apprehension, distrust and actual financial danger. In the face of such faith, backed by the "works" without which the Apostle James said Faith was dead, disaster became almost an impossibility. This faith, backed by works, was alive and virile; it overcame fear in hundreds of minds, it prevented a possible disastrous stampede, and in the end it "justified itself." Such faith is contagious and brings forth fruit a hundred-fold.

IMPORT VALUES SECOND LARGEST IN COUNTRY'S HISTORY—EXPORTS DECREASE.

THE aggregate value of merchandise imported into the United States for the fiscal year ending June 30, 1926, was \$4,466,687,000, or an increase of \$642,559,000, or about 17 per cent, compared with the \$3,824,128,000 for the corresponding period of 1925. In only one year (1920), when the United States imported \$5,278,481,000 of merchandise, did this country pay out to foreign producers as much as during the last fiscal year. Over one-half of this import value was entered free of duty. In spite of our protective tariff, foreign producers are enabled to sell this enormous volume of goods to the United States. Without such protection this country would be swamped with foreign merchandise made by poorly paid labor, which would undermine the industrial prosperity of our country. We are sure that no one wants to see American labor forced to compete with the low rate of wages prevailing in foreign countries, with a consequent lowering of the standard of living of our people. Even as it is, under the present tariff law, we see the great increase in imports over previous years.

In 1925, the excess of exports over imports amounted to \$1,040,452,000, while for the last fiscal year the excess of exports over imports was only \$286,829,000, the second smallest trade balance in the country's favor since 1910, and we must go back to 1896 to find a smaller trade balance.

The value of merchandise exported from the United States for the last fiscal year amounted to \$4,753,516,000, and while it was the second largest value since the war and inflation period of 1916-1920, it was \$111,064,000 less than the value of exports for the fiscal year ending June 30, 1925.

Since the world war the foreign trade of the United States has more than doubled in value, with the export values of the last fiscal year 100 per cent above the average value of exports for the five years 1911-1915, while our import values are 160 per cent more than those for the five-year average 1911-1915.

"THE DECEPTIONS OF THE PEACE."

NO more significant phase of the French veterans' recent appeal to the United States for justice in consideration of the French "debt" to America was noted than the words: "After the deceptions of the peace, they (the veterans of France) do not wish accords which perpetuate the ruin of France and the loss of her independence."

"After the deceptions of the peace"—a rebuke before which every honest, well-informed American may be moved to flush with shame.

The United States is pressing its claim for repayment of moneys, with interest, advanced to France as a substitute for American lives for 15 months before America could place soldiers on the field of battle. In Congress national leaders in both great political parties had virtually promised that no effort would be made to collect these "debts"; now Uncle Sam is pressing for payment on terms which will handicap his "debtors" for generations to come.

France was promised that England and the United States would enter an alliance with it for joint defense against future aggressions, such as the war started and prosecuted by Germany. That promise was broken and is long since forgotten.

France was promised peace conditions at least as favorable as those granted to unspeakable Germany. Instead, France has seen Germany coddled and petted and beloved by the other great nations, while France has been treated with harshness.

The mourning of these French veterans over "the deceptions of the peace" is justified in every way.

Cost of Producing Principal Field Crops.

REPORTS to the Department of Agriculture from 6182 farms distributed broadly over the United States indicate that the average cost of producing the 1925 corn crops on these farms was 69 cents per bushel; the average cost of producing wheat on 3759 farms was \$1.32 per bushel, and the average cost of producing oats on 4675 farms was 51 cents per bushel. Production costs were reported also for potatoes and cotton, the cotton production cost being shown by yield groups rather than as an average cost for the entire belt. The cost figures include charges for the labor of the farmer and his family, and a charge for the use of the farm on a cash-rental basis, so that if the cost just equaled the price, the farmer was paid for his time and his investment.

COMPARATIVE PRODUCTION AVERAGE COSTS IN 1923, 1924 AND 1925 FOR CORN, WHEAT, OATS AND POTATOES.

Crops and geographical divisions.*	Net cost per acre			Net cost per bushel		
	1923	1924	1925	1923	1924	1925
Corn						
North Atlantic	\$40.73	\$41.99	\$44.23	\$0.87	\$1.02	\$0.87
South Atlantic	25.57	27.07	27.71	.85	.97	.96
East North Central	26.77	25.60	27.35	.61	.75	.56
West North Central	18.81	18.96	19.98	.54	.70	.59
South Central	21.18	21.18	21.87	.88	.88	.99
Western	19.02	18.58	20.77	.66	.88	.83
United States	\$23.75	\$23.77	\$24.97	\$0.68	\$0.82	\$0.69
Wheat						
North Atlantic	\$28.43	\$28.46	\$30.43	\$1.24	\$1.42	\$1.32
South Atlantic	22.42	23.92	25.49	1.60	1.60	1.50
East North Central	22.12	23.05	23.29	1.11	1.15	1.29
West North Central	16.17	17.38	17.16	1.24	.97	1.23
South Central	17.16	17.74	17.89	1.32	1.18	1.49
Western	23.95	24.05	26.20	1.09	1.20	1.19
United States	\$21.02	\$21.88	\$22.41	\$1.24	\$1.22	\$1.32
Oats						
North Atlantic	\$24.89	\$25.76	\$26.00	\$0.67	\$0.63	\$0.61
South Atlantic	19.14	20.12	21.28	.74	.75	.76
East North Central	18.21	18.84	19.07	.48	.44	.45
West North Central	15.31	16.43	16.38	.45	.44	.46
South Central	15.84	16.23	16.90	.63	.58	.77
Western	22.74	22.62	24.64	.55	.65	.65
United States	\$18.08	\$18.93	\$19.01	\$0.52	\$0.50	\$0.51
Potatoes (white)						
North Atlantic	\$105.50	\$99.54	\$107.88	\$0.62	\$0.58	\$0.72
Eastern	80.46	82.06	78.51	.69	.67	.79
Southeastern	75.66	80.01	71.97	.78	.82	.87
Central	52.48	56.09	58.00	.52	.51	.60
North Central	51.34	47.10	54.76	.44	.38	.52
West South Central	54.76	51.58	68.31	.67	.68	.73
Western	68.83	67.83	90.57	.46	.47	.58

*States in geographical divisions are: North Atlantic—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania. South Atlantic—Delaware, Maryland, Virginia, West Virginia, North Carolina, South Carolina, Georgia and Florida. East North Central—Ohio, Indiana, Illinois, Michigan and Wisconsin. West North Central—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska and Kansas. South Central—Kentucky, Tennessee, Alabama, Mississippi, Louisiana, Texas, Oklahoma and Arkansas. Western—Montana, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada, Idaho, Washington, Oregon and California. Eastern—Maryland, Virginia, West Virginia, North Carolina, Kentucky and Tennessee. Southeastern—South Carolina, Georgia, Florida, Alabama and Mississippi. Central—Ohio, Indiana, Illinois, Iowa, Missouri, Kansas and Nebraska. North Central—Michigan, Wisconsin, Minnesota, North Dakota and South Dakota. West South Central—Louisiana, Texas, Oklahoma and Arkansas.

A comparison of production costs for the four years 1922-1925 shows that the cost of producing an acre of corn varied from \$23.01 in 1922 to \$24.97 in 1925, and the cost per bushel varied from 66 cents in 1922 to 82 cents in 1925. Because of relatively good yields in 1925, bushel costs were considerably less than in 1924 for the country as a whole. In the South-Central states 1925 corn yields were relatively low because of drought, and the cost per bushel was 11 cents higher in 1925 than in 1924. These figures are for ear corn. In some parts of the country unusually low yields and soft corn in 1924 prevented many farmers from having any corn for husking after filling their silos. In some sections the crop was of such poor quality that it was fed from the shocks without husking.

The acre cost of producing wheat on the farms reporting varied from \$19.68 in 1922 to \$22.41 in 1925. The average

cost per bushel in 1925 was \$1.32, which was from 8 to 10 cents more per bushel than during the previous three years.

The average cost of producing an acre of oats varied from \$17.40 in 1922 to \$19.01 in 1925. The average cost per bushel was 53 cents in 1922 to 51 cents in 1925. Notable increases in bushel costs of oats were reported in the South-Central states in 1925.

The acre cost of producing potatoes was higher last year than in 1924 in most of the potato districts. Last year the highest cost per bushel, 87 cents, was reported in the Southeastern districts and the lowest cost, 52 cents, was found in the North-Central states.

Cotton reports were received from 1405 farmers, but the greater number of reports were from growers having yields considerably above the average. Farmers reporting yields of 101 to 140 pounds of lint cotton per acre had an average production cost of 21 cents. Those with 100 pounds and less had costs considerably higher than 21 cents per pound, while those with higher yields produced cotton at much less than 21 cents per pound. According to the Division of Crop and Livestock estimates, the average yield of lint cotton in 1925 throughout the cotton belt was about 167 pounds per acre. Of the total reports received 207 showed yields of 141 to 180 pounds per acre, or an average of 162 pounds. "These reports," states the Department of Agriculture, "while limited in number, indicate that farmers who had average yields in 1925 produced lint cotton at an average cost of about 18 cents per pound."

1925 AVERAGE COST OF PRODUCING COTTON ON 1405 FARMS, BY YIELD GROUPS.

Yield groups (pounds of lint per acre)	Acres in cotton acre (pounds per farm of lint)	Yield per acre	Per acre	Per pound
60 pounds and under.....	52	34	\$24.26	\$0.71
61 to 100 pounds.....	60	89	27.83	.31
101 to 140 pounds.....	43	126	26.42	.21
141 to 180 pounds.....	48	162	29.71	.18
181 to 220 pounds.....	46	202	31.34	.16
221 to 260 pounds.....	52	246	33.14	.13
261 to 300 pounds.....	44	292	35.85	.12
301 to 340 pounds.....	54	325	38.63	.12
341 to 380 pounds.....	44	360	44.07	.12
381 to 420 pounds.....	59	400	41.33	.10
421 to 460 pounds.....	49	446	49.72	.11
461 to 500 pounds.....	37	496	44.30	.09
501 pounds and over.....	30	600	46.91	.08

FAILURE OF SOME SMALL GEORGIA BANKS.

THE failure of a number of banks in Georgia and Florida operating as a chain system of banking should not at all disturb the general financial situation of the sections in which these banks are located. This chain system of over 100 small banks was organized many years ago by W. S. Witham, who sold out his interests about ten years ago and retired from business. The Bankers Trust Company of Atlanta acted as the financial agent of this chain of banks, and the failure of that company made it necessary for many of the chain banks to suspend until they could make new banking connections.

Writing the MANUFACTURERS RECORD in regard to the matter, Mr. Witham says that up to the time he retired from business this chain of country bank interests was "the best business in this state except the Coca-Cola Company," and he adds:

"Georgia has a large cotton crop. Prices are good, and in two months, beginning August 15, 1926, will load all the banks in this state with cash. Most of the banks closing in this state was caused by fright and inability of their financial agents, the Bankers Trust Company, to borrow money for these banks. I expect more than half of them will reopen during the next two or three months."

**CO-OPERATIVE MARKETING DISTRIBUTION
UNDER THE NEW BILL PASSED BY
CONGRESS.**

A GREAT responsibility rests upon the newly created division of co-operative marketing in the Department of Agriculture. The establishment of this broader activity of the Government was made possible under the co-operative marketing bill, which was approved and signed by President Coolidge before Congress adjourned. The new division will be in charge of Chris L. Christensen, who for the past two years has been at the head of the co-operative marketing work of the Bureau of Agricultural Economics.

Plans for the division have been approved by Secretary Jardine, which are announced as follows:

"The research, educational and service work relating to co-operative marketing will be considerably enlarged under the provisions of this Act. The department, through the new division, will now be able to give the same attention to the development of co-operatives among farmers as has been extended to problems of production. This will be done by the collection, study and dissemination of information regarding the co-operative movement in the United States and foreign countries. Business technique and marketing methods developed by farmers' co-operative enterprises will be analyzed and studied. The experience and knowledge acquired by successful co-operative marketing associations will also be studied and set forth to serve as guide posts in the movement. Commodity co-operative marketing specialists familiar with the needs of co-operative organizations and with research and service of the department will be employed. These specialists will form a special contact between the 12,000 co-operatives and the department. They will assist in the dissemination of crop and market information, data regarding price trends, and conditions of supply and demand, with such analysis and explanation as are necessary to make this information of practical value to the co-operatives and their members.

"The Act enables the department to co-operate with educational agencies. It is part of the plan, therefore, to assist agricultural colleges and co-operatives in working out a comprehensive educational program in co-operative marketing.

"Such additional personnel as will be needed by the bureau in carrying out the provisions of the new Act will be selected in accordance with the requirements of the United States Civil Service Commission."

The growth of co-operative marketing organizations is shown by the fact that since 1915 they have more than doubled in number. The associations include those selling farm products, buying farm supplies, operating creameries, cheese factories, canning plants, grain elevators, stockyards, warehouses and, in fact, all similar organizations rendering service connected with farming enterprises. Most of the associations, totaling 3325, are engaged in the marketing of grain, 121 in the marketing of cotton and 24 in the marketing of tobacco. More than 70 per cent of the associations are in the 12 North-Central states. The magnitude of their operations in the volume of business done by some of these organizations equals that of some of the larger industrial corporations of the country. One fruit growers' exchange did a business of \$70,000,000 last year, a state-wide marketing association sold \$37,000,000 worth of cotton and another group of producers marketed \$55,000,000 worth of milk.

The foregoing illustrates the scope of the co-operative movement with which the new division of the Government will deal. It lies within the power of the officials in charge to render a great service to agriculture and to the American farmer, but it is of equal importance that in aiding the farmers of the country, as a class or industry, the consumer of farm products be likewise protected from high prices based on fictitious values secured through centralized supervision or control of farm markets and distribution. It has long been stated by authorities that when the problem of

distribution of farm products was solved agriculture would be placed on a more prosperous foundation.

This country, it has been shown, can produce staple farm crops and farm products enough to supply domestic needs and furnish a surplus for export. We have long centered our efforts on increasing and perfecting production to the neglect of the equally important part of the farming business of marketing and distribution. What industrial concern could long exist if it turned all its energies to production and none to sales and the distribution of its products? That is exactly what has been happening to the farming business for so long.

The successful farmer is the man who is as much concerned beforehand with what he will do with his farm products after they are raised as he is with growing those products. He is looking ahead to learn the conditions of the market and possible supply at the time he must sell his products, to the quantity of carry-over of crops from previous seasons, and to the extent of the demand for various products in different sections of the country. The co-operative marketing division of the Agricultural Department should be in a position to render as valuable service to the farmers in aiding them profitably to dispose of their products as it has been in solving the problems of production. At the same time the consuming public's interest should be protected through the co-operative marketing organizations, making it possible to distribute farm products in an orderly manner, storing and withholding in time of oversupply, which penalizes the American farmer producing these products, and in supplying sections where scarcity of supplies forces commodity prices to a point where they penalize the consumer.

We reiterate that a great responsibility rests upon the new division of the co-operative marketing work of the Bureau of Agricultural Economics in the Department of Agriculture.

FLORIDA STATE TAX RATE CUT NEARLY ONE-THIRD.

GOVERNOR MARTIN of Florida has kept his promise to reduce taxes in that state. He promised a 25 per cent reduction this year, and he hoped to be able to reduce taxes 50 per cent before the close of his administration. Indications are now that he will fulfill his promise.

The Tampa Tribune reports that the Governor has announced that instead of a 25 per cent rate reduction, the reduction this year would be approximately 30 per cent, the actual reduction being from 10½ to 7½ mills. Not only is this the greatest reduction ever made in the state tax rate at any one time, but it gives Florida the lowest rate it has had in 10 years, states the Tribune, and adds:

"In each year of his administration thus far the Governor has been able to make a tax-rate reduction. Last year it was one-quarter of a mill. Next year it is regarded as certain that there will be a further reduction. We have no doubt that the rate will be reduced fully one-half before Governor Martin goes out of office."

Governor Martin declared that "the reduced tax rate should be a sufficient answer to those who are slandering and traducing our splendid state. This reduction speaks stronger than words of the economic, financial and business conditions of Florida and its Governmental administration."

"The growth and development of the state, the economical administration of its laws and the functioning of its government has enabled me to make this splendid and unprecedented reduction in the state taxes."

The state of Florida has no bonded indebtedness, and on June 30 the state had to its credit a cash balance of \$17,655,317.32. It is believed that this is the high-water mark, and as considerable payments will be due from now to the end of the year it is thought that there will be a gradual decrease

in the amount of cash on hand. These state funds are deposited in the various banks throughout the state and draw 3 per cent interest. The interest accruing for the quarter ending June 30, according to the State Treasurer, amounted to about \$100,000. Is there any other state in the Union that can make such a remarkable showing?

All of this shows conclusively why the state of Florida does not need to levy inheritance, income or franchise taxes.

A VETERAN STEEL MAKER WHOSE INFLUENCE FOR GOOD HAS BEEN WIDESPREAD.

A FEW days ago Willis King, vice-president of the Jones and Laughlin Company of Pittsburgh, celebrated the 57th anniversary of his connection with that great steel-making concern. But this does not mean that Mr. King is not hale and hearty and active after more than half a century of work in such an organization, for he is the embodiment of vigor of mind body.

The influence which Mr. King has exerted upon the steel industry of the nation can never be adequately measured. He has been one of the outstanding men of the highest ideals of life, in private and in business affairs, and his influence for good has been nation-wide in the steel industry.

The writer will never forget the privilege he had some years ago at one of the annual meetings of the American Iron and Steel Institute of listening to a very brilliant paper by Mr. King on "The Golden Rule in Business." In that illuminating discussion of the Golden Rule, "Whosoever ye would that men should do to you, do ye even so to them," Mr. King took the ground that the Golden Rule was applicable to all the relations of business life, whether it be with your competitors, your customers or your employees; and so strongly did he present the matter that he carried conviction to hundreds of leading iron and steel men in attendance.

At the close of Mr. King's paper a distinguished metallurgist arose and said, "This address and what has taken place this morning will simply serve to hasten the day of the coming of the Prince of Peace to the world." Other men followed in the same strain, stirred thereto by Mr. King's remarkably strong presentation of that great doctrine which men everywhere are more and more coming to know should be the dominant note of private and public life, realizing that it is not merely in the long run the best policy for business itself, but that it is the foundation stone on which should be builded individual and business character.

To Mr. King the MANUFACTURERS RECORD extends its heartiest congratulations upon the long life which has been vouchsafed to him, and the magnificent work which he has done in the metallurgical development of the country, and in that still larger field of usefulness in which he has held aloft the highest type of ethics.

A CORRECTION.

IN the "distribution of children in gainful occupations" given in Chart No. 1, page III, of the article on child labor which appeared in the MANUFACTURERS RECORD July 15, the total number of children "distribution by age" 10-13 years of age employed should be shown as 378,063 instead of 387,063. The percentage of 35.6 per cent is correct. Also in the adjacent circle the number of children under 16 years employed in manufacturing and mechanical occupations should be 185,337, or 17.5 per cent of the 1,060,858 children under 16 years working in the United States; 647,309, or 61 per cent, in agriculture, and the rest in trade and other occupations.

"PROHIBITION IS NOT A PENDULUM."

ALTHOUGH speaking, at the time, directly to the members and guests of the "Lions Club," of Biloxi, Miss., Capt. S. P. Edmonds, coast guard commandant of Base 15, at Biloxi, well may have been looking directly at every man, woman and child in the United States, especially Federal, state, county and municipal officials of every degree and rank, when on the Fourth of July he said:

"As to the subject of law enforcement, everyone knows that law enforcement and its corollary, law observance, are foundation stones of our national life, and therefore are fundamental of 'Our Nation's Safety.' In fact, the need for law enforcement is an axiom, and, as you all know, an axiom is defined in our old school books as a self-evident proposition and needs no further demonstration or discussion."

And equally axiomatic, as Captain Edmonds really said in linking law observance with law enforcement, is the need for law observance. Indeed, if either of these great factors in the national safety and welfare is greater than the other, voluntary law observance very probably will outweigh compulsory law enforcement.

At all events, this paragraph from Captain Edmonds' address on "Our Nation's Safety" should be pondered and absorbed by every man, woman and child in the country, and above all—it is sad and humiliating to have to say—by Federal, state, county and municipal officials of every degree and rank. It is a serious condition in which a large percentage of the people, including public officials sworn to support the constitution and the laws, are compelled to law observance through law enforcement; it is even more serious that many of those sworn to law enforcement do not even practice law observance. Only through law observance, and law enforcement when necessary, can "Our Nation's Safety" be assured.

As one of those officials who conscientiously strive to enforce the law, the views of Captain Edmonds on Prohibition also are of interest and weight. As commandant of Base 15 he has done most commendable work in suppression of illegal liquor traffic; his energy and his bravery have been conspicuous, and his words must be accepted as those of a true, upstanding American citizen and officer.

"Just as we, whose fathers fought and suffered for the South, now agree that slavery as an institution can have no recognized place on our statute books, so will future generations find and agree that the drink habit, with its recognized elements of weakness and injury to our social and political fabric, was rightly outlawed," said Captain Edmonds. And he added:

"On this glorious Independence Day I am glad to be able to say that in my private and personal opinion Prohibition has come to stay.

"You who have 'Our Nation's Safety' as your motto may well rejoice since this great principle has been added to the character-forming elements of our day and generation. It is not a pendulum to swing back again, but is progress—nothing less. As Prohibition has been advancing constantly for a much longer time than the Prohibition law has been in existence, we can rest assured that it will continue to advance, with increasing momentum."

This simple, direct, unoratorical statement cannot be successfully controverted.

And to such men as Captain Edmonds is due great credit for the fact that Prohibition already is established and is stable, and not vacillating like the pendulum of which he speaks.

DECREASING SUPPLY OF HIGH-GRADE IRON ORES.

SIR WILLIAM PETER RYLANDS, in his annual address as the president of the British Iron and Steel Institute, recently discussed the future of the iron and steel industry of the world. Commenting upon that address, the Iron Age calls attention to the gradual decrease in the supply of cheaply mined high-grade iron ores in this country and emphasizes the importance of great iron and steel interests preparing for the future by arranging for the concentration of lower-grade ores.

The views expressed by the Iron Age are especially important to the South in view of the enormous supply of low-grade ores in that section which can be concentrated to advantage, as recently demonstrated by the United States Bureau of Mines on the gray ores of Alabama. In discussing this general situation the Iron Age says:

"If this be granted, the American industry as a whole should give a little thought to the permanency of this ore supply. It is a bonanza. All bonanzas are rapidly worked out—that is a historical fact. And Dr. W. O. Hotchkiss, now president of the Michigan College of Mines and formerly State Geologist of Wisconsin, recently stated that 'present merchantable grades of iron ore in the Lake Superior district will become exhausted in about twenty years.'

"Dr. Hotchkiss was speaking, no doubt, of proved ore reserves, and anyone who has followed mining knows that this is a rather elastic figure. Indeed, it would probably be an economical plan to restrict development and exploratory work to an amount which would always keep the 'ore in sight' to a 20-year supply. The statement only emphasizes the well-known fact, however, that the high-grade ores are rapidly being scooped out by steam shovels.

"While prophecy is always dangerous, it is less risky when done in the knowledge of history. Iron will doubtless go the way of gold, silver, copper, lead and zinc. First the surface deposits of high-grade ore are exploited in feverish haste. Next the underground massive bodies of simple, pure ores are worked out. Then the complex and the disseminated ores are mined, to be separated and concentrated.

"Doubtless the American iron and steel industry is a long way from the complex ore treatments which have resurrected many Western mining camps. Still, executives with a long vision will agree that it is none too soon to consider the gradually decreasing quality of their ore supply. The next generation of men in the steel industry will be concentrating their ore to bring it to furnace grade, and will be able to do it successfully and without too much lost money, if the necessary preliminary investigations have been undertaken."

STIMULATING A CALIFORNIAN'S DESIRE TO SEE THE SOUTH.

ROBERT JEMISON, JR., of Birmingham, in the course of a letter to the MANUFACTURERS RECORD, gives enthusiastic praise to the Blue Book of Southern Progress, and adds:

"I have derived much pleasure and inspiration in distributing these Blue Books among friends and connections in various sections of the country."

And then Mr. Jemison sends us a copy of a letter from Harry H. Culver of Culver City, Cal., in which, acknowledging the receipt of a copy of the Blue Book, Mr. Culver writes as follows:

"What a clever idea and in what a clever way you good people have presented a bird's-eye picture of your mighty country!

"While I haven't as yet had time to go clear through your 'Blue Book,' I have read just enough to know that it's dangerous for one to absorb it without wanting to indulge in it. If anyone is inclined to 'slip' a little, I would suggest that they read something else—say 'Why Men Prefer Blondes,' unless they are prepared to move down to the Gulf States.

"Seriously speaking, the big picture that I see is your

possible success in selling the nation the idea that it is to her advantage to aid in capitalizing the possibilities of the Great South.

"Please present my congratulations to Richard H. Edmonds and his staff, and to you, many thanks for the copy."

DEATH OF A. E. GONZALES.

NOT only the entire South but also very much of the nation really mourns the passing of Ambrose E. Gonzales, editor and publisher of the Columbia (S. C.) State. Although Mr. Gonzales had not been in good health for a long time, his death came without forewarning.

Like so many sons of the South in the past and present, Mr. Gonzales was both a fighter and a writer, having been a soldier in the American Army in the war with Spain, 1898. Mr. Gonzales was a son of Gen. Jose Ambrosio Gonzales, who was exiled after the first unsuccessful Cuban revolution against Spanish rule.

Also, like so many sons of the South in the past and present, Mr. Gonzales worked his way to fame and fortune from a life of boyhood poverty and under distressing handicaps. As a boy, he shared the privations and hardships endured by the people of South Carolina in the war between the states, and at the age of sixteen began his business life as a telegraph operator. In all probability, his entering life's responsibilities at that early age worked tremendously for his later success, while his experience as a telegraph operator, working in New York, among other places, undoubtedly gave him a wide range of knowledge and information and literally a world view of affairs. And this breadth of information and knowledge and experience was enlarged by his entry into newspaper work, his apprenticeship in journalism being served on the Charleston News and Courier, on which his brother, Narciso, also was employed.

Early in 1891 Mr. Gonzales and his brother started the Columbia State, and to this work their energies were thereafter devoted. Yet both found time for other interests and activities, Ambrose turning to literature and Narciso establishing a large farm and a model dairy, and the two together entering a hotel enterprise. Even his handicap of poor health for several years failed to overcome Ambrose's devotion to his work.

Among the books published by Mr. Gonzales were "The Black Border," "The Captain," "Laguerre, a Gascon of the Black Border," and "With Aesop Along the Black Border," together with many short stories and articles on many subjects.

The South in particular and the nation at large are the better for such men as Ambrose Gonzales. Their places would be the harder to fill if their example did not stimulate other young men to follow in their steps.

VIRGINIA'S PROGRESS.

J. A. TURNER, sales manager of the Southern Gypsum Co. Company, Inc., North Holston, Va., in a letter to the MANUFACTURERS RECORD, writes:

"Governor Byrd's message, 'Virginia Building an Empire of Wealth,' in the July 1 issue of the MANUFACTURERS RECORD, is not one bit overdone.

"Virginia is building an empire of wealth, not only from an industrial and commercial point of view but along educational, social and religious lines; in fact, everything that goes toward making living conditions of her people better.

"If the remaining years of Governor Byrd's term of office are as full of achievement as the first few months have been, his administration will go far toward putting Virginia on a solid foundation of prosperity. We all hope, regardless of our party affiliations, that this very capable man may have during his entire administration the same co-operation and loyal support the legislature gave him during the last session."

Great Sea-Level Canal Work Almost Completed.

NEW INLAND WATERWAY ACROSS MARYLAND AND DELAWARE PENINSULA TO BE OPENED THIS FALL.

By SAMUEL G. WILMER.

With an expenditure of more than ten million dollars and five years of work, during which 16,000,000 cubic yards of material were moved, the United States Government has converted the old Chesapeake and Delaware Canal from a locked waterway of very limited dimensions to a spacious sea-level canal that will be opened for general use some time in the autumn of the current year. But for the loss at sea this spring off Avalon, N. J., of a large dredge which was on its way from New York to put the finishing touches on the canal, which work will include removal of the old locks that are still in use, the canal would have been opened this summer, probably by July. As it is, it may be November before it is ready for its enlarged service.

Before the great undertaking was begun the canal had a minimum depth at mean low water of 10 feet and was 36 feet wide at the bottom; now it will have a minimum depth of 12 feet at mean low water and the width at the bottom will be 90 feet. But it is now expected that being converted to a sea-level waterway, instead of one with locks, the canal will not long remain with a depth of no more than 12 feet, but that it will be gradually deepened until some day—perhaps not many years distant—it will have a depth of 35 feet, accompanied by also sufficient width for the passage of big ocean steamers, enabling them to greatly shorten the time that it takes them to go between Baltimore and Philadelphia, as not a few have to do in connection with trans-Atlantic freight and passenger service. It may also be used by European steamships to and from Baltimore direct which now have to traverse the entire length of Chesapeake Bay when going from or to the sea. But that is looking far ahead.

At present the idea is to moderately increase the capacity of the canal so that an expanded and enlarged traffic over inland waterways between the South and the North can be conducted by means of river and bay and towing steamers, including tugs and barges. There are now from 600,000 to 700,000 tons of freight, valued at about \$42,000,000, going through the canal every year, not taking passengers, pleasure craft and empty vessels into consideration, and it is anticipated that these figures will be at least doubled in a short

time. The object is to complete as soon as possible an inland waterway that will extend all the way from Beaufort, N. C., to New York and Boston, and when the Chesapeake and Delaware Canal becomes a sea-level waterway the only remaining work to compose such a route will be construction of a canal 31 miles long across New Jersey from Bordentown—which is on the Delaware river, about 25 miles above Philadelphia—to Morgan on Raritan Bay.

The great value to business of an extensive inland waterway along the Atlantic Coast was never more clearly presented than at a dinner given by the Atlantic Deepér Waterways Association to Maj. Gen. Harry Taylor, Chief of the Corps of United States Engineers, at Washington on May 19, when W. H. Fowler of New York, general manager of the Savannah-New York Transportation Company, was quoted as writing:

"Did we have an inside route from Beaufort Inlet to New York via Pamlico Sound, canals, Chesapeake Bay, Delaware River and Raritan Canal, we could materially increase our per annum deliveries and decrease our insurance and operating expense, because we would eliminate the most hazardous part of the voyage, i. e., between Lookout Bight on the south and the Delaware capes or Sandy Hook on the north. The writer has knowledge of many instances where tugboats and barges have been weather-bound for days at Norfolk on passage north. Had this inside route been available, there would have been none of this delay and its attendant losses—loss of operating revenue to boats, increase of operating expenses by reason of tugs and barges lying idle waiting for better weather, and loss to shippers and receivers of cargo due to delay in the movement of cargoes. In our own business operating records show many delays and time losses to boat movements in that stretch of the coast from Lookout Bight to Norfolk or to Delaware capes. Naturally, the operator must take these time losses into consideration and calculate their effect in making his freight rates. They are eventually and finally charged to the price paid by the users of the products shipped."

Not only is it planned to have an inland waterway from



WHILE EXCAVATION WAS IN PROGRESS IN OLD LOCKS AT CHESAPEAKE CITY, MD.—LOOKING WEST.

Beaufort to New York, but it is further contemplated to have a course similarly safe from ocean storms all the way to Florida and thence paralleling the coast of the Gulf of Mexico at least to New Orleans. Referring to this idea, General Taylor said at the dinner: "I look forward to the time when it will be possible for a boat to go from New York to Florida, across Florida, and along the Gulf coast to Corpus Christi, Texas, without ever going into the ocean. I am sure that some time such a waterway will be con-



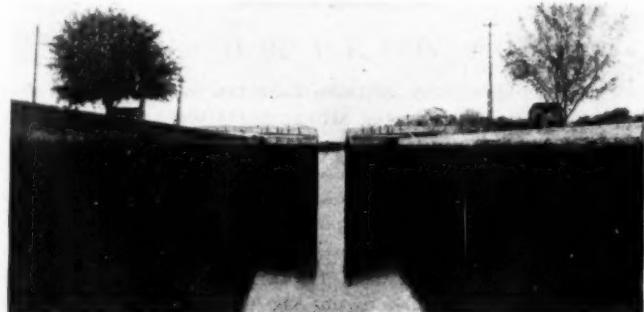
VERTICAL-LIFT HIGHWAY BRIDGE AT ST. GEORGE'S, DEL.
OLD BRIDGE IN THE DISTANCE.

structed and that when it is constructed it will carry a commerce that will fully justify its cost."

When this probability is borne in mind the great importance of the improved Chesapeake and Delaware Canal as a link in the system becomes fully apparent.

More than a hundred years ago construction of the Chesapeake and Delaware Canal was begun and it was opened for use five years later, the work having been started in 1824,

the narrowness of the daily steamers that ply between Baltimore and Philadelphia, and the locks will have to be continued in use until the work of completion is begun this fall, when the dredging and other excavating for the elimination



INSIDE OF THE OLD LOCKS AT ST. GEORGE'S, DEL.

of the locks will be undertaken. Necessity will then compel the Government to close the canal to traffic for a short time to permit this last step in the conversion of the canal to a sea-level waterway. After that locks and other delays will no longer have to be reckoned with.

As indicated by the great volume of earth, mud, etc., which had to be removed in the enlargement of the canal, totaling, as noted in the beginning, 16,000,000 cubic yards, the work was stupendous. In the big cut at the summit of the canal, where the depth of the excavation was 76½ feet, the Summit bridge being 90 feet above the bottom of the canal, the contractors had heavy digging, about 7,000,000 cubic yards being taken out there. The summit cut is about four miles long. Elsewhere along the route of the improvement, altogether nearly 14 miles long from Chesapeake City to Delaware City, they had to build here and there new roads, new bridges, etc., and in one place establish a ferry in place of Pivot Bridge, and also to dispose of a huge amount of dredged material, which was deposited on land purchased for the pur-



EAST APPROACH TO SUMMIT BRIDGE, SHOWING NORTH SLOPE OF NEW CHANNEL IN DEEP CUT WHEN EXCAVATION WAS COMPLETE.

and it was on October 17, 1829, that it was finally completed, although water was introduced in the canal on July 4 of that year. In the early fifties of the last century the capacity of the canal was increased by the enlargement of the locks at Delaware City, St. George's and Chesapeake City, which were originally made 100 feet long and 22 feet wide; this was found insufficient, so their dimensions were increased to 220 feet long and 24 feet wide. These limitations account for

pose immediately adjacent to the waterway. There were five contracting firms engaged on the job—viz., the Arundel Corporation of Baltimore; W. H. Gahagan, Inc., New York city, and the Atlantic, Gulf and Pacific Company, also of New York, all of whom had dredging contracts. The Dravo Contracting Company of Pittsburgh built the substructures of the new bridges and the Phoenix Bridge Company of Phoenixville, Pa., made and erected the bridge superstructures. Some

of the great work which they did is shown in the pictures herewith. The entire canal and its approaches are 18 miles long.

Protecting the new entrance to the canal at the Delaware River end are two long jetties of rubble stone which rest on brush mattresses in 25 feet of water, this because of the soft bottom of the river at the entrance, which is at Reedy Point, about two miles downstream from the old entrance, and is more direct. The north jetty is 1460 feet long and the south jetty 1320 feet long. These had to be made to keep mud and silt from being washed into the channel, which would otherwise fill it up and require frequent dredging. The jetties are 500 feet apart at the shore ends and 800 feet apart at their outer ends. The channel of the approach to the canal at either end is 150 feet wide on the bottom, this narrowing to 90 feet in the canal itself, which is 120 feet wide at the water line, as compared with the old width of 66 feet.

The present improvement was authorized by the Rivers and Harbors Act of Congress of March 2, 1919. The canal was purchased from the old Chesapeake and Delaware Canal Company by the United States Government and the sum of \$2,514,290 was paid for it in 1921. Work was designed, begun and continued under the direction of Col. Earl I. Brown, Chief of Engineers Corps, United States Army, Wilmington District, who remains in charge of it.

Concerning the undertaking, Colonel Brown recently said: "Although the present project contemplates only a barge canal of limited depth and width, it was conceded that there was every probability that such limited dimensions must be regarded as being a stage of probably short duration in the canal's growth to future dimensions which would allow the passage of seagoing vessels. Besides this question of larger canal dimensions, there were also traffic and foundation questions that led us to adopt for all bridges dimensions and clearance that would be in conformity with a future enlargement to a depth of as great as 35 feet. Upon recommendation of the War Department, the bridges were designed to carry the heaviest military loads. After thorough study, the vertical-lift type of bridge was selected as the most suitable and economical. Two of these bridges have been placed in operation and are functioning satisfactorily."

In doing the big work of changing the depth of the canal it was necessary to keep it open to traffic all the time. At

the Chesapeake City end dredges, tenders and scows which could not go through the locks were gotten into the canal by means of an old water-saving basin. They were moved into the basin from Back Creek and then sheet steel piling was driven to close the gap where they had entered. Next, on the canal side of the basin, where a similarly improvised gate had been made, the sheet steel piling was removed and, the water in the basin being thus raised to the level of the canal, the equipment was moved into the waterway to be put to work. At the new cut-off on the Delaware River end of the canal there was a somewhat similar arrangement. When the big dredge had completed the cut-off from Reedy Point up to the bank of the canal, a temporary dam was built



NEW SUMMIT HIGHWAY BRIDGE IN COURSE OF ERECTION.

behind the dredge and the canal bank was then cut through. When the dredge was taken out the process was reversed. All dredges employed were of the hydraulic type, with revolving cutter heads, and pumping through steel pipe lines either onto pontoons or else on shore.

In carrying out the improvements the old route of the canal was followed very closely, excepting for the cut-off at the Delaware River end, which joins the old canal about two miles from the river. The work has been completed to full width and depth, excepting at the locks, which, as previously remarked, will be removed last of all. Vertical-lift bridges have been adopted to replace the old highway structures. There are three main roads and one secondary road crossing the canal for which new bridges have been provided—at Chesapeake City, Summit, St. George's and New Cut, respectively. There is also the bridge of the Pennsylvania Railroad, which was reconstructed to meet the new conditions. The vertical-lift highway bridges have 175 feet clear span



WORK UNDER WAY ON SUBSTRUCTURE OF NEW SUMMIT HIGHWAY BRIDGE—LOOKING NORTH.

and a clear lift of 140 feet above mean low water level. The high bridge at Summit is a striking feature. And from the railroad bridge near there to Guthrie's Run, four miles, the canal goes through the divide between Delaware River and Chesapeake Bay, with banks from 50 to 80 feet above the water.

The differences in the rise and fall of the tides at the ends of the canal are noteworthy. At the Delaware River end the mean range of tide is six feet; at the Chesapeake City end



LOOKING WEST THROUGH THE OLD BRIDGE AT SUMMIT.

two and a half feet, but there is a difference of about two hours in the phases of the tide at the ends. The maximum tidal current in the canal will be one and three-tenths miles per hour. At present the canal consists of a short tidal entrance at Delaware City, followed by four and three-tenths miles of slack water about seven and a half feet above mean low water to St. George's, Del. Then comes another slack-water section nine and three-tenths miles long from St. George's to Chesapeake City, with a level about 17½ feet above mean low water in the Delaware River, this being followed by a tidal section four and two-tenths miles long from Chesapeake City through Back Creek to Elk River, which enters Chesapeake Bay. In all there are slightly more than 13½ miles of locked canal and four and three-tenths miles of tidal canal navigation. The channel generally is navigable its full length of 17.9 miles for craft drawing nine feet of water.

Concerning the economic value of the canal to transportation and commerce, Colonel Brown lately said: "Appropriations and allotments up to the present time have amounted to \$10,125,000, with which it is expected that the work will be completed; \$7,625,000 of this has been expended on new work. * * * Assuming that a public work like this is for public good, for public convenience and for public economy, this canal makes an excellent showing for the funds expended upon it. Omitting all consideration of pleasure boats, passengers and empty vessels, it gives passage to from 600,000 to 700,000 tons of freight annually. Knowing the classification of this freight and its points of origin and destination, together with the proper carriers' rates on same, it is possible to compute the actual cost of transporting that freight by water and to compute what it would have cost if shipped by rail, thus giving the direct saving, if any, due to the existence of the canal. This computation has been made for the canal for the entire period since it was taken over by the United States. From the annual savings so computed we have deducted all actual operating costs of the canal, an assumed sinking fund of 2 per cent to amortize the total cost in fifty years, and interest on all appropriations at 4 per cent. After making these deductions, we find that the net savings in freight transportation costs, which is thus added to the na-

tional wealth, is, in round numbers, \$1,000,000 per year, or, say, \$1.25 for every ton of freight passing through the canal."

The old canal was built by the Chesapeake and Delaware Canal Company, which continued to own and to operate it as a toll canal until 1919, when it was bought by the United States Government. Its chief engineer was Benjamin Wright, who was also chief engineer of the Erie Canal, and did much other canal engineering. Construction was begun April 15, 1824, by Silas E. Weir, chairman of the first committee of works, who died May 14, 1828, and was succeeded by Robert M. Lewis, who finished the construction. The entire cost was \$2,250,000, of which \$450,000 was contributed by the United States, \$100,000 by the state of Pennsylvania, \$50,000 by the state of Maryland, \$25,000 by the state of Delaware and the rest by citizens of Maryland and Delaware.

To operate the canal it was necessary to supply by artificial means an adequate amount of water, because there are no natural streams of any consequence that flow into the highest level. To obtain this water supply a pumping plant was established at Chesapeake City to lift the required amount of water from Back Creek directly into the summit level of the canal, from which it was drawn as required when vessels passed through the locks. The capacity of this pumping plant operating continuously is about 100,000,000 gallons per day. When the canal reconstruction work is finished it will no longer be needed.

On the main pier of Summit Bridge was a tablet inscribed:

"This tablet is erected by the proprietors of the Chesapeake and Delaware Canal to commemorate its completion on the 17th of October, 1829, and to stand as a testimonial of their gratitude to James C. Fisher, president, and Thomas P. Cope, John K. Kane, Robert M. Lewis, Isaac C. Jones, Robert Wharton, Thomas Fassitt, John Hemphill, Ambrose White and William Platt, directors of the company; secretary and treasurer, Henry D. Gilpin; Engineer in Chief, Benjamin Wright; Engineer Resident, David Livermore; Superintendent, Caleb Newbold, Jr."

As it was necessary to remove the old pier with the tablet, the latter will be suitably erected again at another place.

The Lower Rio Grande Valley of Texas.

There is a veritable garden spot in Texas approximately 75 miles long and about 20 miles wide known as the Lower Rio Grande Valley. In this comparatively small area, about one-half in cultivation, there is now produced annually \$15,000,000 worth of cotton, and some 13,000 carloads of vegetables and fruits were shipped out in 1925.

There are thriving towns and good hotels, schools and churches, good highways and ample railway facilities, and an estimated population of 150,000. Construction operations in the Valley last year amounted to approximately \$9,000,000.

The total acreage of the Valley is around 1,000,000 acres, 650,000 of which is subject to irrigation. About 300,000 acres are now in cultivation. Two large irrigation plants and many small private plants are in operation. The length of the canals and main lateral systems is 1000 miles.

The soil of the Lower Rio Grande Valley region is said to rank with the richest in the world, ranging in depth from 20 to 150 feet. This soil produces practically every variety of vegetable. About 1000 cars of citrus fruit were produced last year, and the total citrus trees planted in the fall of 1925 numbered 3,446,000, which are estimated to produce by 1930 over 24,000,000 boxes of fruit, worth approximately \$50,000,000.

The Lower Rio Grande Valley of Texas, and, in fact, the whole Gulf coast sections of the South, is making record development progress.

\$300,000,000 Construction Work Under Way or Planned For.

GIGANTIC UNDERTAKINGS IN NEW ORLEANS AND LARGE DEVELOPMENTS ON GULF COAST.

By WILSON S. CALLENDER, Secretary of Publicity, New Orleans Association of Commerce.

A man in the Middle West recently wrote the Association of Commerce saying he was trying to find out where the "boom" was going to be this winter. He wanted to be on the spot when it came, he said. The association replied: "Since a 'boom' is a loud noise and bizarre display, here today and gone tomorrow, New Orleans cannot accommodate you on that basis. But, if what you want is the opportunity for substantial profit through wise investment in real property, with a consistent enhancement of values through continued prosperity, then pack your trunk for New Orleans and its Gulf Coast environs."

The proof of the association's assurance to the inquiring Westerner is in a long list it has compiled of private enterprises, quasi-public developments and public improvements going on and coming on in New Orleans at present. These projects call for a total expenditure within the next several years of \$246,037,901, almost entirely in construction work. More than \$50,000,000 of Mississippi Gulf Coast work in the immediate environs of New Orleans, including three large hotels, is not included. An unusually interesting document is this report on "New Orleans Projects," because it reflects for New Orleans the all-around development typical of the new South.

Apparently New Orleans is justified in claiming the title of "America's Most Interesting City," because projected expenditures will involve many millions in public utilities to provide for increasing population. Nearly \$100,000,000 will be expended in public improvements, new industries and harbor facilities. On the banks of the new Inner Harbor and Navigation Canal the first units of what will be a \$4,000,000 plant for the Louisiana Portland Cement Company are progressing rapidly. This plant is adjacent to the site bought by the Lukens Steel Company for the expansion of its big fabrication plant. Clam and oyster shells, found in unlimited deposits in South Louisiana, and silt taken from Mississippi River water in the process of purification for human consumption will be basic elements in the manufacture of cement in the new plant.

Three bridges, two across the Mississippi and one across Lake Pontchartrain, to cost in all more than \$25,000,000, are important items of construction. Ralph Modjeska has completed preliminary plans for the New Orleans Public Belt Railroad Commission bridge across the Mississippi and is now preparing detailed specifications. The other river bridge is that of Hero & Hackett recently announced. It will be a pedestrian and vehicular toll bridge, to be erected within the city limits at a probable cost of \$10,000,000. A novel feature of preliminary plans for this bridge, as drawn by Allen S. Hackett, one of the promoters, is the necessary elevation over the river to be attained by means of circular ramps on the New Orleans side, which will be combined with an office building. An application for a permit for this structure is now pending before the State Highway Commission.

The third bridge will give New Orleans direct access to the East across Lake Pontchartrain. Bids are expected to be invited within a few weeks by the Watson-Williams syndicate, which has franchise for this structure, estimated to cost between \$5,500,000 and \$6,000,000. As an alternative to

this privately owned bridge, there has been considerable agitation for the construction of publicly owned toll-free bridges across the Chef Menteur and Rigolets passes.

Another big industrial item is the addition of another large unit to the Celotex plant across the river. This expansion will give the factory a capacity of 1,100,000 board-feet per day and bring the total investment in the enterprise to \$5,000,000.

Other industries listed are: Louisiana Baking Company, new factory, virtually completed, to cost \$250,000; Pan-American Petroleum Company, expansion program, new oil depot filling stations, etc., plans being prepared, \$1,000,000; Tropical Clothing Company, new factory, nearly completed, \$100,000; W. B. Reilly Coffee Company, addition to Luzianne plant, plans being drawn, \$155,000; Gulf States Terminal and Transport Company, liquid cargo-handling plant at Westwego, nearly completed, \$150,000; Todd Dry Docks, ship repair plant, bids for dock already opened by Dock Board, work to start this summer, \$500,000; Eli Lilly Company, office building, nearly completed, \$250,000; Texas Oil Company, offices and oil station, nearly completed, \$250,000; Baronne-Howard Realty Company, office building, seven stories, structural work done, \$250,000; Woodward-Wight Company, warehouses, first of three units to start immediately, first unit to cost \$140,000.

The Canal Commercial Bank is erecting an 18-story building, O. M. Gwin, contractor, and Emile Weil, architect, both of New Orleans, to cost \$5,000,000; it will soon be ready for the structural steel workers. The Pere Marquette—18-story office building—opposite the Canal Bank Building, with the Ferro-Concrete Construction Company in charge, is in the finishing stage, as also is the Masonic Temple, with James A. Stewart & Co. doing the work. These two office buildings will cost over \$4,000,000. The \$2,000,000 Saenger Theater, George Glover, contractor, is progressing rapidly and will be ready this fall. It is definitely reported that the Orpheum Circuit is looking for a site for another big theater here.

Public-improvement projects will include \$4,000,000 a year for street paving; \$2,000,000 a year for extension of sewer, water and drainage systems, with the probability of a much larger program after the next session of the legislature two years hence, and a total of \$2,000,000 for new public schools, nearly half of which is already under way.

The state legislature has authorized a municipal bond issue of \$9,000,000 to provide for the following public improvements:

Municipal auditorium, \$2,000,000; three modern garbage incinerators, \$1,250,000; new criminal court building and parish prison, \$1,250,000, and an addition to City Park of 1055 acres, \$2,000,000.

A building program for New Orleans by the United States Government calls for the expenditure of approximately \$8,000,000. A new marine hospital to cost \$2,500,000, which has the approval of the Secretary of the Treasury, is to come out of the appropriation already made by Congress, and \$1,000,000 will be used for a new quarantine station. Another item is the addition of floor to the custom-house building. Telephone service expansions within the next five years will require the expenditure of \$10,916,000. A large part of this—\$4,011,198—will go into toll and exchange line plant, including poles, aerial and underground cables and con-

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duits: \$3,888,408 for central office equipment, and \$1,036,578 for additions, lands and buildings. Ground is now being cleared for a big annex to the central exchange building.

Harbor improvements under way and contemplated by the Board of Port Commissioners will cost more than \$7,000,000. The biggest item listed by the dock authorities is the new

Poydras street coffee shed. It will be a "double-decker" and will cost \$1,500,000. It is announced that piling contract for this job has been awarded the Dalgarn Construction Company at approximately \$480,000. It calls for driving 3200 piles 85 feet long. Other big items in the port-improvement program include the Canal street landing ferry house, now



\$13,000,000 IN NEW CONSTRUCTION, AS SHOWN IN THIS PICTURE, ADDED TO NEW ORLEANS SKYLINE WITHIN THE PAST YEAR.

These buildings, all in the new Baronne street district, are, reading from left to right, as follows: Union Indemnity Bldg., completed last October, \$1,500,000; Canal Bank site, 18 stories, to cost \$5,000,000, foundation nearly complete; Pere Marquette Bldg., 18 stories, \$2,000,000, ready next October; Roosevelt Hotel, over \$2,000,000, completed last October; building topped by circular sign to be demolished to make way next year for new \$2,000,000 Feibleman store, 8 stories.

ready for structural work, \$1,000,000; Charbonnet street wharf to serve Anderson Clayton cotton compress, work nearing completion, \$200,000; Erato street wharf, with two new banana conveyors, work nearly completed, \$465,000; Julia street wharf extension, work under way, \$660,800; Poland street wharf, second section, nearly ready for superstructure, \$475,000; miscellaneous improvements, Clouett street trestle, Louisa street wharf, Piety street wharf, fire walls, etc., \$425,000, and marine leg tower and foundation, now under construction, for grain elevator, \$200,000.

Projects to be started soon embrace a new boiler plant for grain elevator, \$50,000; enlargement of bulk commodity-handling plant, \$300,000; St. Andrew street wharf, \$450,000; Dumaine street wharf, replacement, \$610,000, and the third and final unit of Poland wharf, \$525,000.

The \$27,000,000 Orleans Levee Board lakeshore seawall and reclamation project, completion of which was made certain by action of the state legislature, is progressing rapidly. The Reynolds Company is doing pumping work, and already new land is appearing above the water along the eastern side of Lake Pontchartrain. Work on the West Beach drainage project and the New Orleans Lakeshore Hammond highway, which are dependent upon each other, since the highway caps the drainage embankment, is moving ahead rapidly. Plans call for the expenditure of nearly \$3,000,000. Another large drainage project along the more westward shore of the lake, to cost \$1,000,000, has been announced and engineers are making surveys.

Seven more hospitals in the list of projects promise much for New Orleans as the medical center of the growing South. New hospitals listed are:

United States Marine Hospital; John Dibert Memorial Tuberculosis Hospital, nearing completion as a part of Charity Hospital, \$500,000; annex to Charity Hospital, plans being drawn, \$100,000; Presbyterian Hospital, 10 stories, long proposed, but for which finances are now understood to be in sight, \$1,000,000; McBurney medical building, part of Presbyterian Hospital, plans being drawn by Rathbone De Buys, \$75,000; Methodist Hospital, \$1,000,000; Soniat Mercy Hospital annex, construction of first unit to cost \$250,000, now under way, two others to bring total cost to \$1,225,000, and St. Joseph's Hospital, now under construction, \$500,000.

Hotels listed include the 12-story Pontchartrain apartment hotel, now being built by the Aschaffenburg interests at a cost of \$1,000,000. Other large buildings include the New Orleans Public Service office building, for which bids will soon be requested, and which is estimated to cost around \$1,300,000; seven-story Felbleman store, plans being drawn by Weiss & Dreyfous, New Orleans, to be started when the site is available, in a little more than a year, and to cost \$2,000,000; Dominican Convent, St. Charles and Broadway, to be started shortly, \$1,250,000, and the American Bank Building, to be undertaken within a few years, \$1,000,000. A \$2,000,000 annex to the Jung Hotel is also expected to be erected within a few years.

\$100,000,000 Company to Handle Coral Gables.

Coral Gables, Fla.—According to an announcement by Telfair Knight, vice-president and general manager of the Coral Gables, Inc., a new \$100,000,000 company, Coral Gables Consolidated, Inc., has been organized for nationally financing the principal subsidiary companies of Coral Gables, Inc., and to bring to completion a 10-year program of development. The new company, it is said, contemplates the sale of 100,000 shares of 8 per cent cumulative stock, most of which has already been subscribed.

George E. Merrick, president of Coral Gables, Inc., will act as president and chairman of the board of the new corporation, and its directorate will consist of the directors of the old company and eight new directors.

Plan Further Tests of Potash Deposits in South Plains District of Texas.

O'Donnell, Texas, July 17—[Special.]—An effort is being made to have the United States Geological Survey make further investigations of the potash deposits of this section of the South Plains, especially in the vicinity of the numerous salt lakes where potash in commercial quantities has already been found. The attention of Julian D. Sears, acting director of the Geological Survey, has been called to the tests that have been made of these potash deposits. The tests are described in a report made by Dr. J. A. Udden, director of Economic Geology of the University of Texas. The report makes special reference to tests which were made at Double Lakes, situated in Lynn county. These are known as Double Lake No. 1 and Double Lake No. 2. The report says:

"The next lake investigated was Double Lake No. 1. Between 400 and 500 acres of pumping area were encountered in the lower portion of the lake, veins being struck in nearly all cases in blue shale at three different levels, at 4, 9 feet and the bottom of the wells 26 feet. The brine flowing from all wells showed the same potash content. A number of these wells in one portion of this lake seemed to be under pressure and would flow out on the surface of the lake."

"In Double Lake No. 2 nearly the entire area is pumping area, with a strong flow. In either of these lakes we are assured of 10 gallons per minute or better, and no doubt could furnish 2000 tons of concentrated brine per 24 hours."

"The brine grew stronger when pumped for several hours. The amount of brine is without doubt inexhaustible for a plant using 2000 tons of brine per day."

"The brine in these lakes averaged from 19 to 20 degrees Baume, with a potassium content of approximately 1½ per cent referred to the brine, the remaining solids being salts, such as sodium chloride, magnesium chloride, sodium sulphate, etc."

"While this may be referred to as a potash proposition, the fact is that two other valuable products are made which give it a decided advantage over other American potash plants in operation, only one of which has produced by-products up to this time.

"Either the salt or magnesia is more valuable than the potash. The outstanding feature that we want to emphasize is that the salt should pay for all operating expenses and the other products represent net profits."

Muscle Shoals Leased to Alabama Power Company.

A contract with the Alabama Power Company for the utilization of power from Muscle Shoals, without restriction until December 1 and thereafter until terminated by 30 days' notice by either party, was approved on July 16 by Secretary of War Davis.

Under the terms of the agreement the Alabama Power Company is required to give precedence to hydro over steam power. Under the original agreement the Government received \$119,000 for the power developed at Muscle Shoals in June. Had the new agreement been in effect the Government would have received \$145,000, or nearly 22 per cent more.

The new contract provides for the sale of hydro-electric power at the following rates: At 2 mills per kilowatt-hour when substituted for steam power from the Gorgas plant; at 3 mills per kilowatt-hour when substituted for steam power from the Gadsden plant; at 4 mills per kilowatt-hour when substituted for steam power from the Nitrate No. 2 plant. Power sold to other companies will be at the flat rate of 2 mills per kilowatt-hour.

The above rates were based upon the computed cost of steam power.

\$13,350,000 Building Operations in San Antonio.

CLOSING FISCAL YEAR OF HIGH ACTIVITY, WITH BRIGHT OUTLOOK FOR THE FUTURE.

By FRED M. HERNDON, San Antonio.

The valuation of building operations in San Antonio reached a total of \$13,355,477 for the year closing May 31, 1926, ending the fiscal year with a total of \$2,517,289 for the month of May and breaking all previous records for a single month.

Of the 3784 permits issued for the year, 1792 were for homes costing above \$3000 each; 31 apartment buildings, \$615,450; 16 factories, costing \$558,893; two theaters, costing \$1,200,000; Boy Scouts home, costing \$55,000; one ice-skating rink, costing \$35,000; 2 hotels, costing \$1,000,000; 13 churches, costing \$421,000; remodeling and addition to Bexar county courthouse and jail, \$1,750,000; 2 municipal swimming pools, costing \$60,000; 6 public schools, costing \$502,000; in addition to store buildings, community centers, church rectories, ice stations, warehouses, etc.

In addition to the above figures, the year just closed has

sale building for the A. B. Frank Company, costing about \$500,000, and a large number of lesser structures.

Contracts have been let, or are in preparation of letting, for the erection in suburban San Antonio of two tourist hotels and tourist apartment hotels, each of which will cost above \$1,000,000, with two new hotels proposed in the immediate business section, and plans are being drawn for two new theater buildings, one a new Majestic circuit theater, to cost close to \$2,000,000, to be erected in the heart of the business district, the upper floors for offices.

There is no fear of overbuilding in San Antonio. The above figures show convincingly that building operations are widespread over the entire field of construction from new hotels and apartments to stores, factories and homes, and denotes a healthy growth in the city.

There is no boom on in San Antonio or in southwest Texas. The growth is steady, and is attributable in large measure



WHOLESALE PRODUCE SECTION AROUND CITY MARKET HOUSE, SAN ANTONIO.

witnessed the completion of several large projects, chief among which was the new municipal auditorium completed and opened on April 20 at a cost of \$1,200,000 and seating 6065 persons. Other important construction completed during that period includes the Medical Arts building, costing \$1,500,000; the new Aztec Theater building, completed and opened in June at a cost of \$1,500,000, and the Builders Exchange building, costing above \$500,000.

Among the larger projects now under construction are the Olmos Basin dam, costing \$2,000,000, included in the city's flood-prevention program; a new Lasky theater, costing \$1,500,000; a new hotel, costing above \$1,000,000, being erected by the Smith Brothers Company; a new factory and whole-

to San Antonio's equitable climate, its location in the heart of the winter-vegetable garden and citrus-fruit section; its nearness to the Republic of Mexico, for which San Antonio is a natural gateway, and also its nearness to the new deep-water port at Corpus Christi which San Antonio is building.

Natural gas and 11 oil fields in the immediate vicinity, expenditures of the United States Army of more than \$32,000,000 yearly in San Antonio, manufactured output of \$85,000,000 annually, in addition to agriculture and livestock raising, which heretofore has been one of the main products of southwest Texas, tend to keep San Antonio to the forefront. To this may be added a wholesale business of \$100,000,000 yearly and a retail business of above \$300,000,000.

Spindle Top Field Spouts Again After Leaving Operators in Dark for Quarter of Century.

By MARVIN BROWN, Publicity Director, Beaumont Chamber of Commerce.

The people of Beaumont, and the Gulf coast oil district, of which it is the center, had double inspiration for celebrating the Fourth of July just past. It was just previous to the natal day anniversary that it was announced in print throughout the country that the Spindle Top field, just on the outskirts of Beaumont, had taken the lead of all Gulf coast fields in the matter of quantity production of a high grade of pipe-line oil.

The statement recalls the incident of early days, little more than a quarter of a century ago, when the country first went "oil crazy." It was during the noon hour of January 10, 1901, that the little 8000 population town of Beaumont got the shock of its life. Capt. A. F. Lucas of Washington, D. C., had contracted with Patillo Higgins, who had a 150-acre lease on Spindle Top hill, just on the south edge of the city, to drill for sulphur. Little was known of oil at that time, and least of all did anyone, except Higgins, suspect that there was oil at this particular spot. He had claimed that oil was here, but he was looked on as a dreamer by the great majority of the population and little attention was paid to him or his operations up to that time.

Captain Lucas had a crew at work on the Spindle Top rig and the bit had reached a depth of 1139 feet. The crew had quit work for lunch on this eventful day, while Captain Lucas had come to town to confer with his associates about abandoning the well and giving it up as a bad job. With a noise not unlike that of a rumbling volcano, the well blew in shortly before 1 o'clock, while Captain Lucas was on his way back to the derrick to order his men to abandon the well and tear down the rig. A six-inch stream of oil shot 150 feet into the air and made the elements black with the dark, liquid gold. The well ran wild for ten days and before it could be controlled flowed more than 120,000 barrels of oil daily.

The history of Beaumont and Spindle Top from that day until the excitement subsided some two years later would make a book. The wildest oil scramble ever witnessed in this or any other county ensued, and the story of what followed is too voluminous to be undertaken here. It might be mentioned, however, that in those days 1500 feet was deep drilling, the average depth being around 1100 feet. The fifty million barrels of oil taken from that small spot of 150 acres since the Lucas gusher came in was taken at depth of from 750 to 1300 feet.

Somebody has said that history repeats itself. And it does look that way. While January 10, 1901, will always stand out as a red-letter day in Beaumont's history—the day when people climbed telephone poles, scrambled to the roof of the country courthouse and to every other advantageous position to view the first "gusher" oil well ever discovered in the world—there is another date that will take its place alongside the one just mentioned. That was November 13, 1925. The majority of the now 60,000 population was languishing under electric lights and watching the hilarities on the evening of the first day of the nineteenth annual event of the South Texas State Fair. In the midst of these festivities came the news that Spindle Top had been reborn. The Yount-Lee Oil Company, a local concern with local capital, drilling at a depth of 330 feet, brought in a 3500-barrel gusher. History had repeated. There had arisen, phoenix-like, a new Spindle Top, hard by and within the very shadow of the old. And it was just as new as if it had

been a thousand miles away, for the depth is different, the sands are different and the oil is of different gravity. The pleasing thing is that prices are different. Oil from the Spindle Top field in the old days sold as low as three cents a barrel. That will never happen again. A dollar a barrel is "dirt cheap" now.

And the methods are very different. The old-time walking beams have been substituted with modern rotary drills, and instead of taking from three to six months to put down a well it can be done now in from one to three weeks, depending on depth. Electricity has taken the place of old-fashioned steam and gasoline engines and the entire operation has been reduced to a scientific and mechanical nicety. Then, too, operators know now how to save the oil. It is estimated that a million barrels were wasted at Spindle Top in the early days. No preparation had been made for caring for the oil and veritable creeks of the product flooded the entire country round about. That was also before the day of refineries. Now six of the world's largest oil refineries are located in Jefferson county, and it seems a fitting trick of nature that big production should be brought so close to almost perfect refining and distribution facilities.

The Yount-Lee Company's second producer was a 5000-barrel gusher, then another, and another, until, as this is written, six Yount-Lee wells are flowing, producing a total of around 16,000 barrels daily. The Gulf Company, who until the Yount-Lee Company brought in their first producer, scorned leases at \$10 and \$15 per acre and are now gladly paying \$6000 to \$7000 per acre for leases—and have just succeeded in bringing in a 6000-barrel gusher. Six, seven and eight thousand barrel gushers have been daily occurrences here for the last two weeks.

Several other companies have gotten in since and more than a score of wells are drilling at this writing. Land is being leased for miles around Beaumont and the original Spindle Top field, and authorities announced just recently that the total Spindle Top field production was more than 22,000 barrels daily and had taken the lead in the fields of the Gulf coast region. What the future holds for the section can hardly be surmised, even by the most expert oil operators or geologists.

What is taking place in this section is taking place all over Texas on one scale or another. It should be borne in mind that oil was not found in paying quantities in Texas until about 25 years ago, yet at this time there are more than 16,000 producing wells in the state. There are more than 300 wells producing natural gas, according to reports from the oil and gas division of the railroad commission, which has supervision over the industry.

The territory for which Beaumont is headquarters, and at which is located a deputy of the oil and gas division of the railroad commission, embraces 17 counties. In this district are approximately 2000 producing wells, with a daily production of more than 60,000 barrels of pipe-line oil. Practically all this oil, with a large per cent of that produced in Texas, Arkansas, Oklahoma and Louisiana, comes to the Beaumont district for refining and finds its way to coastwise and foreign markets over the wharves and docks at Beaumont, Orange, Port Arthur and Port Neches.

Principal fields in the Beaumont district, over which old Spindle Top has so recently taken the lead, are Batson, Hull, Orange, South Liberty, High Island, Big Hill, Barber's Hill, Sour Lake, Dayton, Saratoga, Vinton, Edgerly and

others. In many of these the surface has just been scratched, it is believed, and almost every day there is a new sensation. For the week of June 30 the average daily production of the Gulf coast fields totaled 102,101 barrels. The production has doubled within the last few months and is growing rapidly. The impetus is also shown in vessel shipments of refinery products and crude from the Gulf ports during the months of May, totaling 16,176,399 barrels, an increase of 1,912,038 barrels over the month of April.

Like a voice from the tomb, old Spindle Top has again spoken, and has set the oil world agog with speculation. Always a mystery to even the most expert; a heart breaker for many, while a bonanza for some; the center of oil excitement a quarter of a century ago, promising a repetition

of that same history now; sagging at times, but always one of the steady producers of the coastal region, there is no one who can guess the answer. Oil men are coming from all quarters, and when they learn that the big production is coming from a depth never before reached, and with every indication of the original source of supply having been just recently located, Beaumont promises to stand in the oil spotlight for many moons to come. It looks as if Walter Malone were right when he paraphrased a certain notable author on the old, old phantom, "Opportunity," when he attributed to her the expression: "They do me wrong who say I come no more, when once I knock and fail to find you in, for each day I stand outside your door and bid you wake, and rise to fight and win."

Cotton Flea in the South.

By C. A. WHITTLE, Atlanta.

Much has been heard of the cotton flea or hopper this year, not that it is a new insect invading the cotton belt, but because it has become so numerous as to do serious damage to the cotton crop. Those who have never seen the cotton flea to know it can now go into almost any cotton field, give a cotton stalk a shake and see gnat-like insects springing into the air. They are larger than gnats and in flight spread white wings. At rest on the cotton plant they are greenish, so nearly matching the color of the plant as to be seen with difficulty; hence the presence of the flea is more easily detected by putting it to flight through shaking the cotton plants.

This year the flea came into the cotton fields in damaging numbers over a wider territory than has ever before been known, due, it is thought, to climatic conditions that favored a large survival of the winter and due to the presence of early host plants, in great profusion, such as evening primrose, croton and horsemint, on which plants the insects feed and breed in late winter and early spring. When some of these early host plants matured and died down, their flea population migrated to the cotton plants and there resumed feeding and breeding.

Whether the flea damages cotton by feeding on the growth buds and small squares, or whether the damage is due to the transfer of some disease or virus from the plants from which they come to the cotton, is a problem now being studied by entomologists.

As a matter of fact, the cotton flea is an insect about which very little is known. Not until three years ago did it show up in a damaging way on cotton and become an object of sufficient economic importance to require the attention of the entomologists. The late W. D. Hunter of Houston, Texas, chief in charge of crop-insect control in the South under the United States Department of Agriculture, began investigating the flea and obtained one year's results. But the next year there were so few fleas to appear that the experiments were null. With the death of Dr. Hunter, the flea work passed to the control of B. R. Coad, in charge of boll-weevil investigations of the Government at Tallulah, La. The third year's study is in progress, or, more properly speaking, the second year's work is in progress.

Several insecticides, including arsenicals and emulsions, were tried on the flea the first year, but the only treatment that gave measurable control was sulphur dust. Government workers do not, as a rule, draw conclusions or make recommendations based on one year's results, but, facing a crying necessity arising this season, the Government workers at Tallulah, La., have advised the use of 10 pounds of sulphur dust per acre of cotton, this to be applied preferably with

machines used for applying calcium arsenate to cotton for boll-weevil control. Guessing somewhat as, of course, it is necessary to guess in the light of very limited information, the Government workers advise making a second application about four or five days after the first; then to observe and, if fleas are still doing damage, repeat the application in four or five days, and so continue as the need may arise.

Just how the sulphur affects the flea is not certain. Whether it is contact injury or suffocation from fumes that makes sulphur successful remains to be developed. It seems that the probabilities are that the fumes of the sulphur exercise the chief control, since it has been observed that in the presence of moisture when sulphur gas is generated most rapidly the fleas disappear more quickly than where dry weather prevails. In view of the fact that the presence of moisture seems to cause the sulphur to be more effective in flea control, and, since the sulphur will adhere to the cotton plant better in the presence of moisture, it seems advisable to dust the cotton plants while dew is present.

As to the grade of sulphur to be used in dusting the cotton plants, no official standards have been promulgated, but from authoritative sources come recommendations of 95 to 97½ per cent sulphur ground to a fineness of 200-mesh screen. Those who are in position to grind crude sulphur to this fineness would apparently be measuring up to such standards as now exist. The fertilizer manufacturer should be in line for producing this material, as well as insecticide manufacturers, provided there are no future regulations that would bar ground crude sulphur in favor of flower of sulphur. The necessity for any such step does not now seem apparent. The fertilizer manufacturer who burns sulphur to produce sulphuric acid would, of course, be in better position to absorb unused cotton-flea power than others who might undertake to distribute the material.

No one can predict with certainty what the cotton flea may amount to as a cotton pest. The first year it was observed to be doing serious harm to the cotton plant only a few spots were infested. The next year no damage was reported from any section of the South. This year the flea shows up in a damaging way in areas all the way from one end of the cotton belt to the other and across its breadth, the upper part seeming to suffer more than the lower.

The damage of the flea is quite like the damage of the boll weevil, in that the most serious results from the attack of each is in the destruction of the squares or fruit buds. Where the flea is bad enough to denude the plants of squares, the boll weevil is whipped out by the flea, because the flea appears on the cotton first and because it attacks and destroys the squares before the squares are big enough to accommodate the weevil for egg-laying purposes. Therefore,

it is impossible for both these insects to be very bad on the same cotton plants, but it may be possible for enough of both to be present to be threatening. In that case eight pounds of sulphur and four pounds of calcium arsenate may constitute the dust application.

To Combat Cotton Flea in Texas and Oklahoma.

Austin, Texas, July 16—[Special.]—More than 150 entomologists, farmers, cotton brokers and bankers, all interested in the cotton crop of Texas and Oklahoma, attended the conference held here to consider methods of combating the ravages of the cotton flea. The meeting was presided over by Charles H. Alvord, director of the Texas extension service of the Texas Agricultural and Mechanical College. The use of sulphur upon the infected fields was recommended. It was shown by reports made at the conference that the flea infestation now covers practically all of Texas, except the South Plains region of northwest Texas. Opinion differed as to the extent of the damage. Most of the farmers present expressed themselves as hopeful that the pest would pass away in time for the plants to put on new squares and that a normal crop would be made.

Dr. F. L. Thomas, state entomologist connected with the Texas agricultural experiment station, was principal speaker at the conference, and was optimistic. "I believe that much of the cotton infested with this green and white insect we call the cotton flea will survive its ravages, and make a fair crop," he said.

"The plant, aided by continuous cultivation, will stand a much better chance of outgrowing the effects of the flea than will the less sturdy plant. I would never stop a team from cultivating to run a machine for catching the cotton flea. I look for a big improvement within the next 15 days."

Mr. Alvord said the best formula for raising cotton was given him by a Smith county negro farmer who, in 1925, won a prize by averaging two bales to the acre. He said the negro, in response to questioning, said, "I have just stayed with the cotton and coaxed it along."

Resolutions were adopted recommending that banks, chambers of commerce and other organizations provide every facility for obtaining and distributing insecticides at reasonable cost for combating the cotton flea and other insect pests; also that the Governor of Texas be urged to declare an emergency and allow a deficiency and increase the appropriation for carrying on the work of insect investigation.

Georgia County to Fight Cotton Hopper.

Americus, Ga.—Steps have been taken by the Agricultural Board of Sumter County for combating the cotton hopper, or Texas cotton flea, in the Sumter county cotton fields. Boll-weevil control is also engaging the attention of the board, and recommendations regarding the problem have been made. According to H. A. Cliett, county agent, frequent rains in many sections of the county have been conducive to the propagation of the boll weevil.

Survey of Tri-State Fruit Belt.

Martinsburg, W. Va.—This city will be headquarters for a four-month survey of fruit growing and marketing problems in the Cumberland-Shenandoah belt to be conducted by fruit experts from Pennsylvania, Virginia and West Virginia, aided by Carl R. Swinson, representative of the Department of Agriculture at Washington. Paul Eke and H. L. Crane of West Virginia University at Morgantown will make the survey for this state; S. D. Fletcher and R. D. Anthony of Penn State College for Pennsylvania and J. J. Vernon, J. F. Schneiderhan and H. G. Colville for Virginia.

Farm Returns Show Improvement.

Further improvement in the financial condition of farmers in 1925 over the preceding three years is shown by the annual survey of farm returns by the Department of Agriculture.

Reports from 15,330 farmers in all parts of the country show an average net return of \$1297 for those farms. The average size of the farms was 304 acres, with an average investment of \$17,149. The farm net return of \$1297 for 1925 compares with \$1205 for 15,103 farms in 1924, \$1020 for 16,186 farms in 1923 and \$917 for 6094 farms in 1922. Both receipts and expenses have increased each year during the four-year period.

Average gross receipts were \$2551, consisting of \$933 from crop sales, \$897 from sales of livestock, \$585 from sales of livestock products and \$76 from miscellaneous products.

Average current cash expenses totaled \$1477, consisting of \$386 for hired labor, \$242 for livestock bought, \$244 for feed bought, \$69 for fertilizer, \$47 for seed, \$191 for taxes, \$119 for new machinery and tools, and \$179 for miscellaneous items.

Receipts, less cash expenses, averaged \$1074, in addition to which the farmer used home-grown food products, valued at an average of \$283. The value of fuel and house rent was not reported. On the other hand, no allowance has been made in the expense items for the labor of the farmer and his family, which was estimated by the farmers at an average value of \$793.

The cash balance of \$1074 represented all the cash the average farm made available to the owner-operator to pay his living expenses, take care of debts and make improvements.

The farmers reported an increase of \$223 in inventory values, which figure, added to the cash balance of \$1074, made a farm net return of \$1297. Out of this amount, \$225 was paid as interest on indebtedness and \$127 was spent for improvements.

FARM RETURNS, 1923-1925.

	Averages of reports of owner-operator farmers in all parts of United States to U. S. Department of Agriculture.		
	1923	1924	1925
Number of reports.....	16,183	15,103	15,330
Size of farm, acres.....	298	303	304
Value of farm real estate, Jan. 1....	\$14,530	\$14,323	\$14,184
Value of farm personal property, Jan. 1.....	\$2,960	\$2,937	\$2,965
Total.....	\$17,490	\$17,260	\$17,149
Receipts—			
Crop sales.....	\$850	\$1,012	\$933
Sales of livestock.....	760	780	897
Sales of livestock products.....	550	570	585
Miscellaneous others.....	80	72	76
Total.....	\$2,240	\$2,434	\$2,551
Cash outlay—			
Hired labor.....	\$350	\$384	\$386
Livestock bought.....	240	222	242
Feed bought.....	210	248	244
Fertilizer.....	60	66	69
Seed.....	40	44	47
Taxes (farm property).....	190	192	191
Machinery and tools.....	110	103	119
Miscellaneous other.....	150	151	179
Total.....	\$1,350	\$1,410	\$1,477
Receipts, less expenses.....	\$890	\$1,024	\$1,074
Increase in inventory of personal property.....	\$130	\$181	\$223
Net result.....	\$1,020	\$1,205	\$1,297
Interest paid.....	\$230	\$230	\$225
Spent for improvements.....	\$140	\$133	\$127
*Non-cash estimated items—			
Food produced and on farms.....	\$265	\$266	\$283
Value of family labor, including owner.....	\$870	\$789	\$706

*Averages of those making the estimate.

Steamship Company Extends Florida Service.

A freight service has been inaugurated by the Baltimore and Carolina Steamship Company, Baltimore, from the port of Baltimore to West Palm Beach, Fla. Steamers now touching at Georgetown and Charleston, S. C., and at Miami will have their runs extended to West Palm Beach; the first vessel sailed from Baltimore on July 13 on the longer run. A weekly service will be maintained.

\$100,000,000 Improvements in Two-Year Period in One Town.

A STORY SUGGESTIVE OF GREAT CONSTRUCTION AND GENERAL BUILDING ACTIVITIES.

By GERRY SWINEHART, Director Public Information, Greater Palm Beach Chamber of Commerce.

One hundred million dollars' worth of public and private improvements in two years!

That is the story of how Greater Palm Beach, Fla., is striving to keep faith with thousands of new citizens who are pouring into its confines. This great growth has come in the last six years. Today Greater Palm Beach is existent. It is a dual community so expanded that it has come to have an appeal not only to the fashionable and wealthy, but to citizens in all walks of life. On March 1, 1926, 50,000 permanent residents had deposits of \$50,000,000 in local banks.

The city of West Palm Beach at present is on a 1925-26 improvement program, which, according to C. A. Bingham, city manager, will involve an expenditure of approximately

years. In 1925 the City Commission awarded the W. S. Lockman, Jr., Construction Company contracts for \$2,000,000 worth of work, now practically completed. The same company has been awarded new contracts totaling an additional \$1,275,000.



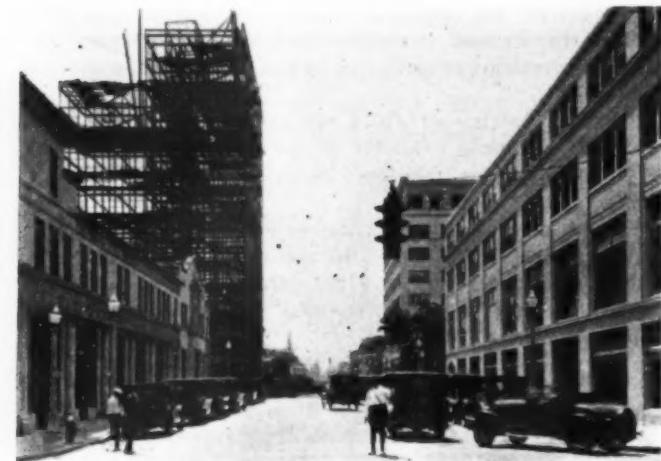
LOOKING EASTWARD DOWN CLEMATIS STREET.

and the city shortly will be ready to receive bids on a third sewer district to cost \$2,000,000.

Plans are also virtually complete for a sewage-disposal plant and intercepting sewers to collect from all newly built lines. These will cost approximately \$4,000,000 more. In addition, there are one or two small districts to be built, which will boost the total expenditure for sewer construction in two years to \$10,000,000.

The next problem in the rapid growth of the city was water supply. Deciding not to purchase the present privately owned water plant, the City Commission made an agreement with the water company under which the city allowed the company an increased rate on the firm's promise to enlarge immediately the filter plant and construct \$2,000,000 worth of new water mains. This work is proceeding at a rapid rate.

There was next the question of adequate street lighting.



THE DATURA STREET BUSINESS DISTRICT.

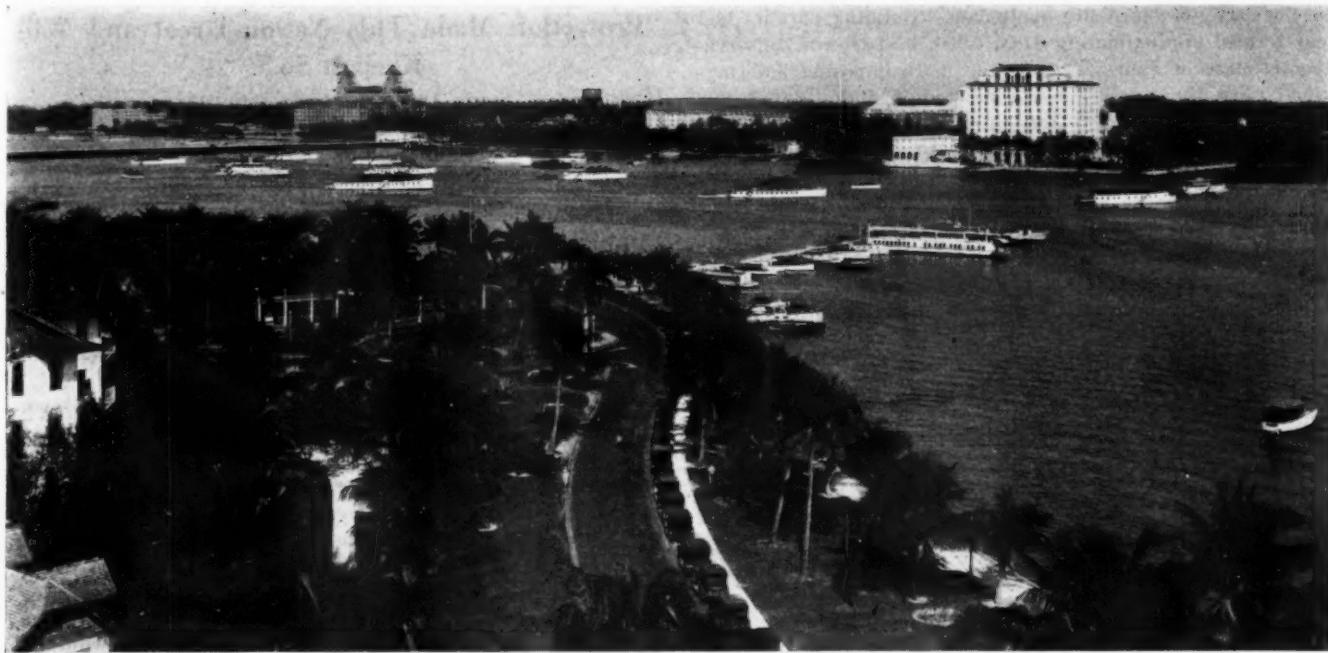
\$72,000,000. Over in Palm Beach some \$20,000,000 to \$30,000,000 worth of improvement work is under way, it is estimated.

Out of \$72,000,000 being expended in this two-year period, the city and public-utilities companies are expending approximately \$25,000,000 for public works. The remainder covers estimates given for building permits to date and estimates advanced by city officials for the latter half of the present



THE NEW SKYLINE OF WEST PALM BEACH.

From left to right may be seen the Lake Court Apartments; the new Pennsylvania Hotel, soon ready for opening; two public schools, the Salt Air Hotel, the 14-story Harvey Building, the Palm Beach Mercantile Co. addition, the Guaranty building, the Kettler Theater, the eight-story Citizens Bank building, the ten-story Comeau building, El Verano Hotel, on the lakefront, and the new six-story Dixie Court Hotel.



FOUR PALM BEACH HOTELS AS SEEN FROM WEST PALM BEACH.

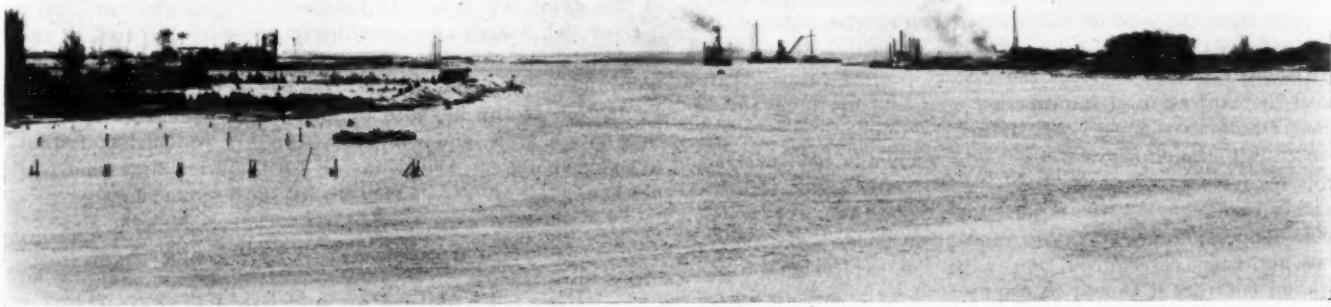
From left to right the hotels are the Royal Danell, the \$7,500,000 Alba, on the site of the old Palm Beach Hotel; the Royal Poinciana; the new \$3,000,000 Whitehall.

As a result of a \$250,000 contract let last summer, West Palm Beach has added 22 miles of boulevard lights to its system, and the prospects are that another \$250,000 contract will soon be let for the addition of another score of miles of "white way lights." The work was done last summer by the Southern Utilities Company, now a part of the Florida Power and Light Company.

In 1920 the little town of 8463 persons had only about 25 miles of hard-surfaced streets. By June, 1925, the city had grown to a population of about 35,000, and had witnessed the construction of approximately 80 miles of pavement. In July, 1925, contracts totaling \$2,000,000 were awarded to three contractors—the Andrews Asphalt Paving Company, Hamilton,

exception of a part of one district. West Palm Beach now has about 100 miles of fine pavement. Bids have been received by the City Commission on more paving, which will add approximately 32 miles of streets and cost an additional \$5,000,000, a part of the work having already been awarded.

In addition to public improvements instituted by the city and the West Palm Beach Water Company, the Palm Beach Gas Company, Florida Power and Light Company and the Southern Bell Telephone Company have effected extensive developments. Their total programs of new work, either completed or in process of completion, total nearly \$4,000,000, City Manager Bingham has announced. Recent announcements made by the telephone company and the power and light com-



DREDGING LAKE WORTH INLET TO ORIGINAL 16-FOOT HARBOR DEPTH.

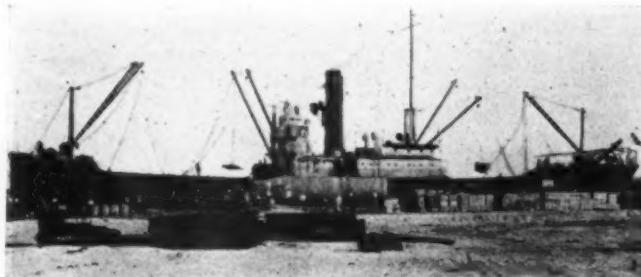
The plan is to complete this work within the next few weeks so that vessels of regularly established steamship lines may enter the port of West Palm Beach without danger.

Ohio; Southern Roads Company, Birmingham, Ala., and the Southern Materials Construction Company, Little Rock, Ark. Work was to have been completed by January 1, but the embargo was laid on Florida just when contractors were ready to bring materials and equipment here. As a result, their first efforts were checked, but when the embargo was raised they set to work. In about three months of actual operations this vast amount of paving has been completed, with the

pany, respectively, state that the former will expend \$9,500,000 in Florida this year, and that the latter, by the end of the year, will have expended \$50,000,000 for improvements and new construction.

In the past 14 months voters have approved bond issues aggregating \$3,000,000 for the construction of additional sea-walls, improvement and expansion of park and playground systems, installation of new fire and police systems, and for

the purchase of added fire equipment. Building permits last year totaled approximately \$18,000,000, based on a conservative estimate of value. Among the more imposing buildings which have been or are being erected in Palm Beach and West Palm Beach since July, 1925, are the 11-story Alba Hotel, costing \$7,500,000; 10-story Whitehall Hotel, costing approximately \$3,000,000; new Breakers Hotel, about \$4,000,000; 14-story George W. Harvey office building, \$750,000; 10-story A. J. Comeau office building, \$515,000; eight-story Pennsylvania Hotel, \$877,000; new telephone building, \$225,000; six-story Dixie Court Hotel, \$300,000; new plant of the Post Publishing Company, one of the finest newspaper properties



THE LAKE HELEN, FIRST REGULAR FREIGHTER TO ENTER THE PORT OF WEST PALM BEACH.

in the South, representing an investment of \$500,000; new homes of the Farmers Bank and Trust Company, and the Central Farmers Trust Company, representing large investments.

Meanwhile ground has been broken for a 10-story office and bank building for the National Bank of West Palm Beach, the city's newest financial institution. It will cost \$450,000.

All construction mentioned here is in West Palm Beach, except the Alba Hotel, Whitehall and Breakers hotels. It is a fact that in Greater Palm Beach building in 1925 aggregated more than \$31,000,000.

One other great development should be mentioned. That is the Lake Worth inlet, or the port of West Palm Beach, as it has become known since the Federal Government has officially recognized it. The harbor, according to engineers in charge, will be officially opened with a depth of 16 feet within the next few weeks. On January 5, 1926, a bond issue of \$3,250,000, to carry the original 16-foot project to a 24-foot depth, was voted almost without opposition, and immediately upon the sale of the bonds in April Gen. George W. Goethals was engaged to supervise the project.

Although actual work on the 24-foot project cannot begin until the expiration of the contract now held by the Waldeck Deal Dredging Company of Miami to complete the 16-foot work, preliminary surveys are being made for the construction of jetties. General Goethals estimates that approximately two years will be needed to complete the work to 24 feet. The exact size of the turning basin inside Lake Worth has not been determined, but with the expiration of the present contract it should be 600 by 1000 feet.

Hialeah to Issue \$1,000,000 of Bonds.

Hialeah, Fla.—This city has been authorized to issue bonds in the amount of \$1,000,000, and according to E. E. Lucas, director of public safety, half of this amount will be sold presently. Funds from the sale will be used as follows: For streets, sidewalks and curbs, \$200,000; parks and playgrounds, \$125,000; erect city hall and remodel police headquarters and fire station, \$50,000; incinerator, \$25,000, and water mains and fire hydrants, \$100,000. The remaining \$500,000 will be sold as needed.

"Protection Made This Nation Great and Will Keep It So."

Aetna Life Insurance Company,
Hartford, Conn.

Agency at Springfield, Mo., July 3.

Editor Manufacturers Record:

In the June 10 number of your valuable paper I read with much interest the article entitled "The Made-in-America Campaign of the National Association of Manufacturers." To begin with, I want to tell you very frankly that I admire your courage in replying to the writer of that article in such an emphatic manner with reference to the viewpoint he has taken on the subject.

Then, too, I commend you for the decided stand in favor of the Made-in-America campaign now in progress and being fostered by our manufacturers.

Isn't it about time that Americans be for America? Unless a man has an axe to grind I cannot understand his attitude in opposing such a worthy move by the men who furnish the means that make our great enterprises possible. What would our country be without the immense manufacturing establishments which furnish employment not only for thousands of laboring men and women, but for millions? Is it possible that any American would be willing to place our American labor in competition with the laborer of India, Japan, China, France, Germany, England or any other foreign country? If there is one, or any number of them, how can they be good, loyal Americans? Some men would kill the goose that laid the golden egg, or, in other words, sell their birthright for a mess of pottage, tear down the very structure that made us a great nation, made our laboring classes prosperous, able to own homes, drive autos, educate their children and live like white folks, enjoy the inalienable right to life, liberty and pursuit of happiness, guaranteed to every American by the Constitution of our nation.

I feel that every well-thinking American who is willing to live and let live would be glad to see our laboring classes prosper. As I look upon the entire situation, we are one great, big family; the woe or weal that concerns one of our number concerns us all, more or less. Self-protection is the first law of nature, and what is true of an individual is true of a nation. Then, if that is true, why not stand by each other, protect each other, buy American-made goods, and thus not only prosper yourself, but also help every member of this great, big family to prosper?

I say, let America be neighborly and help the rest of the world all she can, but not at the expense of our laboring men and women, nor at the expense of our manufacturers. Protection is the keynote to this entire problem. It made this nation great and will keep it so. In conclusion, I want to suggest, let us Americans be for America first, last and always.

A. A. MEHL.

Plans 14-Mile Power Line Extension.

Staunton, Va.—Plans have been completed by the Virginia Public Service Corporation, Clifton Forge, for the extension of its electric light and power lines in the southeastern section of Augusta county. A proposed new line will extend from Fishersville to Stuarts Draft, thence to Cold Spring and on to Greenville, a distance of 14 miles. The Virginia Public Service Corporation was organized several months ago by A. E. Flitkin & Co., New York, as a holding company and subsidiary of the National Public Service Company. It has in operation a high-tension line from Charlottesville to Staunton and is completing a similar line from Clifton Forge to Staunton.

Alien America.

RACE OR NATION. By Gino Speranza. Bobbs-Merrill Company, Indianapolis. \$2.50.

Reviewed by RICHARD WOODS EDMONDS.

[American advocates of lowering the bars against an influx of immigrants should study the following interesting review of the alien in America, or "Alien America," as Gino Speranza, an Italian of American birth, presents the subject in his book bearing that title. This review of Mr. Speranza's "Alien America" gives an illuminating light upon the influence which the aliens have upon this country. In view of the facts set forth so clearly, it would seem extremely unwise for this country to permit any increase in immigration either for agricultural or industrial purposes, for there is more at stake in the future of America than in merely increasing the acreage under cultivation or rearing enlarged industrial enterprises. Rather than continue to destroy the Americanism which our forefathers founded, it would be better to go a little more slowly in material progress, if lessened immigration should reduce the rate of material prosperity; but, on the other hand, we believe that reduced immigration will add to the prosperity of the country. It will stimulate the supplanting of muscle power with mechanical power. It will broaden the field for the people now in this country, and will help to maintain that rate of wages which makes for our national prosperity.—Editor Manufacturers Record.]

Gino Speranza, an Italian of American birth, who classes himself with "we New-Stock Americans," to whom, in large part, his appeal is addressed, has written a powerful argument in favor of closing the door to further immigration. He takes the position that while alien races, ideals and customs may be just as good as those known as Anglo-Saxon, may even be better, nevertheless their forcible introduction into this country by large masses of aliens, all determined to perpetuate here their native customs, languages, political, social and religious ideas and ideals, and their bitter racial antagonisms, means the destruction of our national homogeneity and, along with it, our national harmony, social and political, and, to a great degree, our national power and prestige. He backs his arguments by masses of incontrovertible facts, many of which have been matters of common observation of our press and people since the outbreak of hostilities in Europe in 1914.

To a man who has lived always in the South, where foreign elements are a negligible part of the population, Speranza's description of conditions in the East and Middle West reads like a bad dream of some foreign land. To anyone who has lived in New York and New England for a few years it is simply a recitation of facts of almost every-day experience.

Briefly, the burden of Speranza's argument is that our masses of aliens flock together, strongly and persistently resist Americanization for generations, consider and openly proclaim themselves Poland, or Germany, or Russia, or Latvia, or Italy, or what-not, as the case may be, transplanted to this country, and deny allegiance to the land in which they make their livings and their homes; that, by so doing, they constitute discordant elements in our national life, destroying our national homogeneity and providing foundation for the often-repeated charge that the United States of America is not a nation at all, but merely a geographical designation for transplanted Europe, with all its racial quarrels and animosities. He describes the work of the hundreds of alien organizations flourishing in this country, whose object is the perpetuation of the native languages, customs and social and political ideas and ideals of the aliens of various races, and quotes the spokesman of one of them to the effect that their object is the rescue of its nationals "from the abyss of Americanization."

Our own republican institutions are thus under a powerful and incessant attack. Our popular notion of the melting pot would be tenable if we received annually only a few aliens, and saw to it that they were scattered widely, so that their influence would be completely sunk in the sea of Americanism. But when we have with us at one time 14,000,000 foreign-born and 23,000,000 more of their children, as compared with 68,000,000 native stock (many of whom are "native" only one or two generations back), it becomes perfectly obvious that if these foreign elements combine aggressively to

alter our institutions, while those of native stock remain passive, the effect will be pronounced.

The fallacy of rapid assimilation Speranza lays to total ignorance of the persistence of racial customs. Even the South, with its large preponderance of native stock, is not free of its baleful influence.

"It was on December 20, 1803, that Gen. James Wilkinson of the United States Army, with a contingent of Ohio, Tennessee and Kentucky militia, took possession of Louisiana Territory." Describing his travels in the French provinces of Louisiana in recent years, and the struggle he witnessed to establish public schools where English instead of French would be taught, the author comes to a discussion of a textbook used in one of the parochial schools:

"On its first page it carried the '*Approbation de Mgr l'Archeveque de la Nouvelle Orleans.*' Freely translated, this archiepiscopal approval says: 'We have had examined a book entitled '*Historie de la Louisiana, racontee aux Enfants Louisianais,*' written in French. From a report made to us this book breathes sentiments truly Catholic, and, evoking the remembrance of France, the mother country of our creole population, deserves to be published, and we recommend it to our Catholic schools, parochial and otherwise.'

"What are some of these 'truly Catholic sentiments' which this history, written for the instruction of children who, though *enfants Louisianais*, were and are Americans? Are they to be found in the chapter describing the taking over of Louisiana by the United States Government, which in this history is called 'la Domination Americaine'? Or are they to be found in the following passage:

"'We must here notice, my children, the importance which our forebears attached to the maintenance of the French language in Louisiana. They fully realized all that the introduction of a foreign language would make them lose of their rights. For it is not a theoretic question, this question of language, but a question of *independence and nationality*.'

"If these be 'truly Catholic' aspirations, their sponsors may justly claim considerable success in making the Commonwealth of Louisiana live up to them, notwithstanding a century of 'Domination Americaine.' For the State Convention, which in the year 1912 gave Louisiana a newly revised Constitution, made the literacy qualification for the exercise of the electoral franchise the ability of a citizen to write his application for registration in the English language or his *mother tongue!*'"

One result of this resistance of the French population to Americanization in the shape of public schools is the fact, recorded by the census of 1920, that of the native-born white people of Louisiana 10 years or more of age, 10.5 per cent were unable to read or write. "No other state in the Union had such a high percentage of *native white illiteracy*."

But this spot in the South, where for over a century a French population has stubbornly resisted the influence of the melting pot, is innocuous compared with conditions in some of our Northern and Eastern states, where for years compact communities of foreigners have lived and still live, actively teaching and practising not only their native languages and customs, but ideas of government wholly antagonistic to that of our Government, and have actively and

vigorously fought for foreign policies wholly harmful to this their adopted country. More than a hundred years ago a congregation of German Lutherans went to court in a bitter legal battle to keep the English language out of their church services, alleging that the use of English would destroy "the object of their religious institutions." Just what the object was that would be destroyed by the use of English they refrained from explaining, but it certainly could not have been religious, since God understands one language as well as another.

"And yet to this day immigrants and the children and grandchildren, and even the great-great-grandchildren, of immigrants of various religious sects in this country still maintain, in and out of court, that it is an invasion of *religious liberty* and of freedom of *worship* for the American state and American public opinion to expect and to demand that English—the language of the American people—shall not be considered a 'strange tongue' in the churches of this land." "The insistent, aggressive effort *** to maintain and to perpetuate in this country the 'mother tongue' of their lands of racial origin is, in fact and in morals, demoralizing, unpatriotic and anti-American."

One hundred and seventy-five years ago Benjamin Franklin, keen old philosopher, sensed the danger. Writing of the influx of Germans prior to 1750 and then still coming, he asked why they should be "Suffered to swarm into our settlements and by herding together establish their language and manners to the exclusion of ours." Speranza adds "about one hundred years after he wrote the above sentence, the descendants of these immigrants, then citizens by several generations of that Commonwealth and of the United States of America, 'made a general effort to retain the German language,' and actually called a convention in the effort to insert in the then new State Constitution a provision to permit "German counties" to use the German language in the courts.

"If the German language is suppressed," the preamble to, the resolutions proposed in one of the county conventions recites, "Our German churches go to destruction," and with them "we rob our children of that which is best—German honesty, faith and diligence!"

Note particularly those three items of which the use of the English language would rob the children of the Germans of four to six or eight generations on this soil.

But why talk about things that happened 75 or 100 years ago? Simply to show that our troubles in this quarter are by no means new; simply to show that we are amazingly slow to learn by experience. Our fatuous talk of the wonders of the melting pot has blinded us to actual conditions.

"Some years before the World War," says Speranza, "there was formed at the Capitol of Ohio a 'Deutscher Legislator Club.' Its purpose may be gathered from its official booklet:

"A number of the members of the Seventy-ninth General Assembly of Ohio," reads the preamble, "being of German birth and descent, *after mature deliberation and discussion*, decided that, as *Representatives of the General Assembly* they could best advance the interests of the German population of Ohio by uniting themselves into an organization." (Italics the author's.)

Speranza then quotes from "Objects" of this association of legislators and representatives "of and for the American people":

"The object of this club is to cultivate the *German ideals* we now have and to encourage the German language, the German system of physical training, German song and German lectures and discussions with special reference to its influence upon German-American life and history and liberal movements."

Mr. Speranza quotes also an article that appeared in the issue of November 1, 1922, of "that most open-minded and

sympathetic of American weeklies—The Outlook—under the caption, "The Revolt Against the Yankee":

"The real, the true reason why socialism has made such political gain in Wisconsin since 1917 is because the European War consolidated the spirit of revolt against the Yankee tradition. The same thing is true of the whole group of mid-Western granger states that have been populated by Continental peasants. Probably there are not more people in Wisconsin than in some other states who feel that the *United States is not a country*, but there are more who *openly say so and who will vote for any man whose words and acts mean substantially the same thing*. The two groups that dominate an immense area and population—the German and the Scandinavian—have been brought into almost complete accord by the events of the war. *** The depeasantized peasants, as H. G. Wells calls them, have in their common hatred of Yankeedom a stronger bond of unity than ever existed before. *** However unpalatable the fact may be, a record of service in the war of 1917-18 is a liability and not an asset for a candidate in Wisconsin."

We have shut down somewhat on immigration, and colonization by physical penetration has about come to an end. But foreign Governments have found a new, a more effective method in what Speranza calls *cultural penetration*. They have observed the persistence of racial ideals and culture, first in Europe and then here, and they are assiduously cultivating and maintaining, through innumerable cultural societies, their national ideals among their people here. Further:

"Nothing has shown more vividly how exploited is the average American's belief in the almost magic powers of conferred citizenship than the stampede of not only some foreign officials, but of foreign propagandists and of some New-Stock political leaders and 'Americanizers' to make 'American citizens' of new arrivals from alien countries. Why?

"Because the alien, the alien-minded and foreign Governments have found that the *use of the American franchise*, with its rights and its immunities, by our naturalized aliens, or their alien-minded descendants, in the case of international exchanges, is the best means of perpetuating the natural persistence in this country of racial outlook and aspirations, of definite nationalism and national and racial differences. Thus our aggressive alien electoral blocs, naturally cohering into ever-better organized groups, are encouraged through these outside stimuli to 'transfer Europe to America,' to bring into our life all the political and social differences of the Continent. And not only are all such European struggles and intrigue transferred to these shores, but our foreign policies are being more and more distinctly denationalized and de-Monroeized!"

And he adds:

"We have a dark enough problem of our own in the growing rise of economic or political groups or blocs exercising pressure upon our Government; but government by *group pressure of racial blocs* is a step toward the absolute denial of American representative government. ***"

"Americans are apt to wonder why in 2000 years of Christian civilization the various States and peoples of Europe have not come together; they wonder how there has not emerged from the long and varied struggles of the Continent a United States of Europe. It is, primarily, because *historical, racial and cultural variances* among the various peoples and stocks have been and are so profound and persistent that neither an approximation to political solidarity, nor to democratic equality, nor to a 'synthetic' Europeanism has been, or is, possible."

Elsewhere he stresses the importance of the remarkable homogeneity of blood, custom and point of view of the 13 original colonies that, despite certain differences of economic interests, enabled them to form a nation.

"The issue, in terms of American life in 1920, is this and no other:

"The 13 states of Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Ohio, Indiana, Illinois, Michigan, Iowa, Wisconsin and Minnesota cover an area of territory constituting something less than *one-sixth* of the area of continental United States, excluding Alaska; upon that area there are 54,365,217 of the 105,710,620 people constituting the total population of the United States in 1920; of these 54,362,217 inhabitants of such 13 states 28,340,239 are *foreign-born* or of *foreign parentage*. That is, *more than a quarter* of our entire population is *foreign-born* or of *foreign parentage*; it is settled in an area comprising *less than one-sixth* of our continental territory, and constitutes *more*

than one-half of the total population of the 13 states 'which are the center of the nation's industry.'

As long as we permit even a trickle of immigration (and we are permitting a good deal more than a trickle now) we add ever-fresh material to the active alien groups in this country. Our history shows that even if we should shut off all immigration, such groups would certainly maintain their activities and their effectiveness in creating cleavages in our national solidarity for several generations, although the attrition of our national habit of travel and individual migration, of intermarriage, and of the distance of the younger generations from the fatherland and from direct contact with fresh immigrants, would slowly but surely wear down the vitality of such organizations and eventually, possibly in six or eight generations—that is, in 150 to 200 years—result in their practical obliteration.

Mr. Speranza advocates several policies which would tend to hasten this desirable end. He thinks some immigration should always be permitted, though he strongly advocates the abolition of the immigrant. His distinction here is not clear, though the inference is that he advocates such drastic restriction of immigration as to practically eliminate it, while not shutting it off completely. He favors complete revision of the laws under which we extend the franchise to aliens of only five years' residence, who, manifestly, are wholly unfit for the privileges and responsibilities conferred by the ballot. He says:

"Other requisites we should demand by special legislation, if necessary, include these: That no man should be entitled to hold public office, high or low, Federal, state or municipal, who does not read, write and speak English fluently; nor that any 'American citizen' should be allowed to vote who cannot read and write the language of the nation in whose government he participates."

The book throughout is sane and well balanced, free from the prejudice of race and vigorous in its statements of a situation that challenges the best thought and most united action of all true Americans. It is, in short, thoughtful and thought-compelling, and to all sincere Americans it should prove electrifying.

Kansas City Newspapers Sold for \$11,000,000.

Kansas City, Mo.—A proposal made by Irwin R. Kirkwood on behalf of himself and associates for the purchase of the newspaper properties owned by the William Rockhill Nelson Estate has been accepted by the university trustees of the William Rockhill Nelson Trust. The purchase includes the real estate occupied by the Kansas City Star, but not the ground south of this property. Purchasing interests assume all current liabilities and accounts payable, prepaid subscriptions and suits for libel, personal injury and others arising from the operation of the newspapers, all existing editorial and commercial contracts and all unpaid taxes.

The purchase price for the properties is \$11,000,000, to be paid as follows: Five hundred thousand dollars deposited with offer; \$2,000,000 to be paid on the transfer of the properties, and \$8,500,000, at 5 per cent, payable not less than \$675,000 per year in quarterly payments, to include interest and to be secured by mortgage on the properties. William Volker, J. C. Nichols and Herbert V. Jones are the trustees.

Utilities Company to Erect Building.

Oklahoma City, Okla.—According to an announcement by J. F. Owens, general manager, the Oklahoma Gas and Electric Company, plans to erect an office building here. The structure will be six or seven stories at first, but plans have been made and foundations will be constructed for a 14-story building, additional stories to be added as needed.

Plans for \$4,000,000 Civil Courts Building at St. Louis.

Plans have been completed for estimating on the steel work of the new \$4,000,000 civil-courts building to be erected in St. Louis, and it is expected that plans and specifications for the remainder of the structure will have been completed by September or October. The building will be erected by the



NEW BUILDING TO BE ERECTED BY THE CITY OF ST. LOUIS.

city after plans by the Plaza Commission, Inc., a group of architects and engineers of St. Louis. It will be 24 stories, 135 by 162 feet, with steel skeleton, concrete floor slabs and stone exterior. The foundation will be supported by open caissons sunk to solid rock. The upper floors will represent a Greek temple, surmounted by a stepped pyramid and containing 42-foot columns of Ionic design. The entrance to the building will be of the Doric type, with two 44-foot columns and a granite base approach. Contract for excavation and foundation has been awarded to the Fruin and Colnon Contracting Company of St. Louis.

Galveston Votes \$750,000 Improvement Bonds.

Galveston, Texas.—A favorable vote has been recorded here on three bond issues calling for a total of \$750,000 for municipal purposes. A proposition asking for an increase of 10 cents in the tax levy was defeated. Items for which the bonds were voted include the following: Permanent drainage, especially in the west end, \$250,000; street improvements, \$200,000, and enlargement of water and sewerage systems, \$300,000.

\$1,350,000 Water Plant Completed at Spartanburg.

CONCRETE DAM 450 FEET LONG CREATES RESERVOIR OF 350 ACRES—HYDRO-ELECTRIC PLANT BUILT TO UTILIZE EXCESS WATER MADE AVAILABLE.

At a cost of about \$1,350,000, Spartanburg, S. C., has completed a city water plant that ranks among the most modern in the country. The South Pacolet River was selected as the source of supply, and it will be possible progressively to expand this supply to meet the water demands of the city for the next fifty years. The new plant provides for a capacity in excess of twice the present consumption of water, and in design, construction and equipment is said to stand second to none in the South.

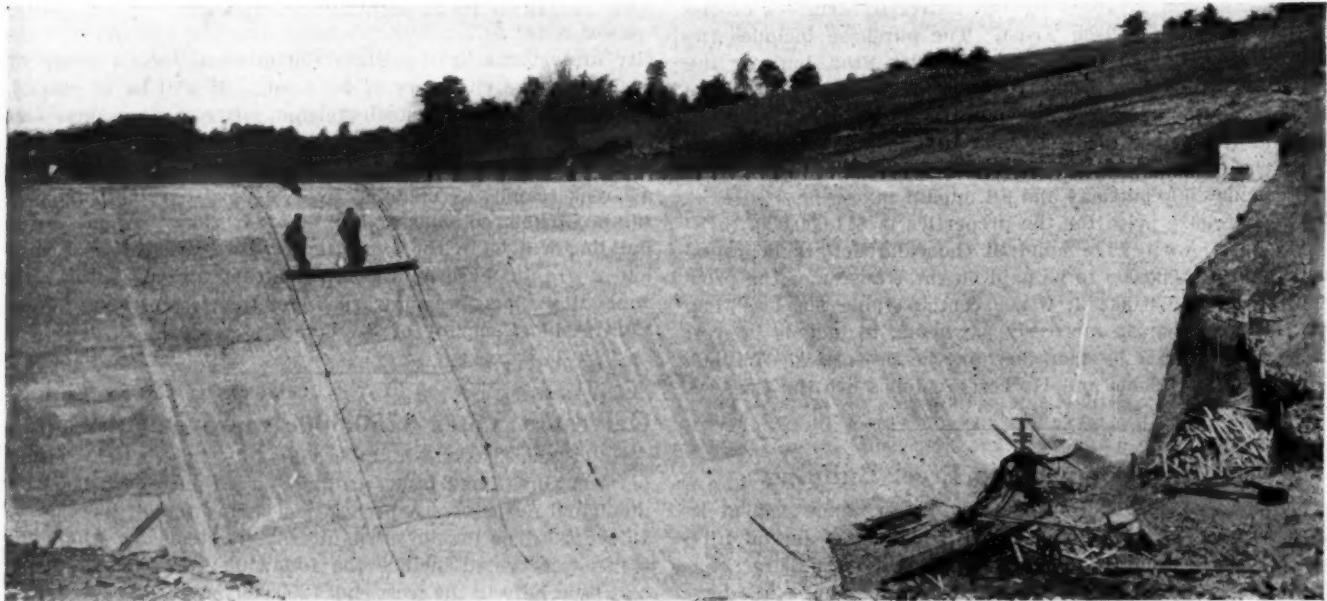
The dam has been constructed across the South Pacolet River about 11 miles from the city. Below the dam is a filter plant that takes the water by gravity. The minimum flow of the river at the dam is 20,000,000 gallons daily, and the average flow is estimated at 70,000,000 gallons daily. A total head of 63 feet is available, and a hydro-electric plant has been built to utilize the excess water. The dam is of the hollow, reinforced concrete type. It has an over-all length of 450 feet, a height of 50 feet above normal water surface, and contains 7200 cubic yards of concrete. The reservoir created by the dam floods 350 acres and has a storage capacity of 1,250,000,000 gallons, and of this amount 90,000,000 gallons is in the upper 15 feet and is available for draw-down.

The power house is located about 1200 feet below the dam. Water comes through a 78-inch steel penstock, which is divided into two 54-inch penstocks at the power house, thus supplying water to two units. A small differential surge tank is placed at the end of the 78-inch penstock to protect it against excessive pressures due to change in or rejection of load. In the power house are two 750-horsepower S. Morgan Smith turbines with steel scroll cases, equipped with 5000-foot-pound Lombard governors. These turbines are connected direct to two General Electric generators. The generators will furnish power for operating and lighting the water plant and its grounds. Excess power will be sold to a local power company at the city's switchboard. A 33,000-volt transmission line has been built to the plant by the power company and the necessary transformers installed. It is estimated that

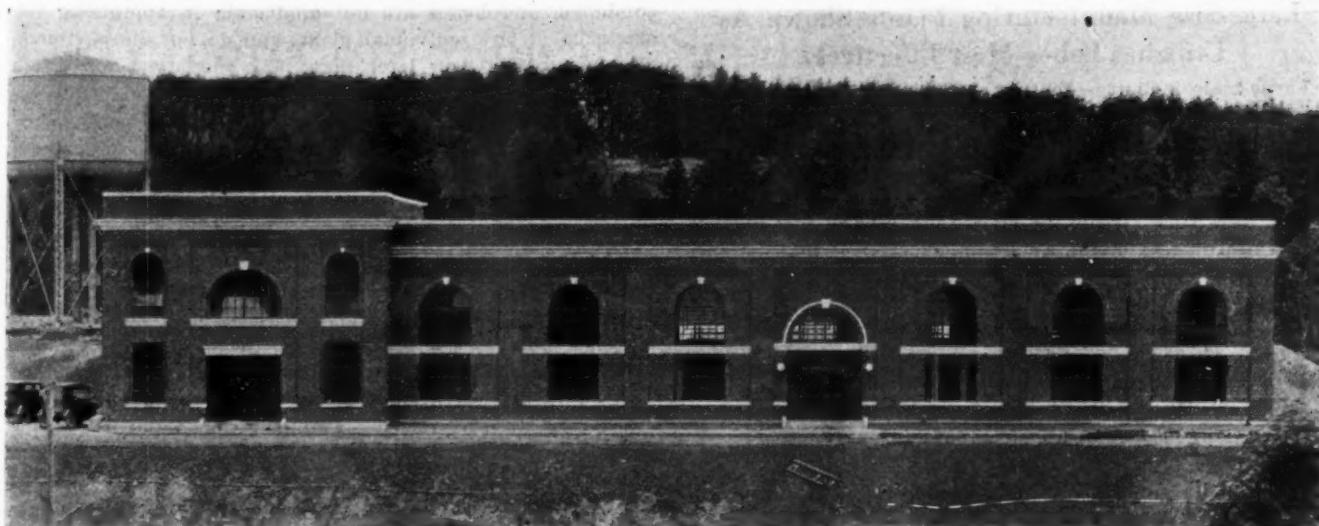
at the present rate of water consumption 2,500,000 to 3,000,000 kilowatt-hours of energy in excess of pumping requirements will be available for sale yearly.

The main unit of the plant is the filter plant, a modern two-story brick and concrete building, housing the pipe gallery and filter units. The filter plant consists of six units of 1,000,000 gallons daily capacity each, built in a continuous line, with an open pipe gallery. Under the filters is a clear-water well of 750,000 gallons capacity. In the rear of the building are two concrete coagulating spaces, having a retention period of 6 hours at a 6,000,000-gallon rate. These are preceded by a mixing chamber of the over-and-under baffle type, having a retention of 30 minutes at a 6,000,000-gallon rate. For flexibility the mixing chamber is divided into three compartments. Wash water is supplied from a 75,000-gallon steel tank on a 25-foot tower through a 16-inch line. The tank is connected to a 300-gallon-per-minute, motor-driven centrifugal pump, which takes suction from the clear well, and also to the high-pressure main for emergency supply. Lime and sulphate of alumina are fed to the water as it enters the mixing chamber by dry-feed machines. Raw water is supplied by gravity to the plant through a 24-inch cast iron pipe connected to the penstock, and the rate of flow is controlled by a 12-inch hydraulically operated valve equipped with simplex control mechanism. Chlorine is applied to the water as it passes from the filters to the clear well.

Filtered water is pumped from the well under the filters in the filter plant through a 24-inch cast iron pipe line 15,000 feet long to a 3,000,000-gallon clear-water reservoir. The reservoir is covered, circular in shape, of the ring-tension type. It is 240 feet higher than the pumps and 200 feet higher than the city. At the reservoir there is installed a Gurley electric water-level gauge, which is connected to an indicating and reporting register in the filter plant. From the reservoir the water flows by gravity through a cast iron pipe line to the city. To make the pipe lines easily accessible, the gravity supply line for its entire length, and the major portion of the force main, are laid in a top-soiled highway maintained by the county. The gravity main has a



THE RESERVOIR CREATED BY THIS DAM FLOODS 350 ACRES, AND HAS A STORAGE CAPACITY OF 1,250,000,000 GALLONS.



THE MAIN UNIT OF THE PROJECT IS THE FILTER PLANT, A 2-STORY BRICK AND CONCRETE BUILDING.

maximum capacity of 10,000,000 gallons a day. A steel stand-pipe of 1,000,000 gallons capacity will be constructed near the city to provide a supply in case of a break in the supply main, to regulate pressures and to provide for peak loads when the consumption begins to approach the capacity of the line.

Splendidly built houses have been erected on the grounds for the operating engineers. The water-works has built its own roads, its own telephone lines and will beautify the grounds to such an extent that it is declared they will be a show place of Spartanburg. Richard Schemerhorn, Jr., landscape architect, has been engaged to supervise beautifying the grounds. Trees and shrubbery will be planted around the buildings and reservoir. Within the grounds will be camp sites and playgrounds. When completed the grounds will be an additional park.

Engineering was handled by the Solomon-Norcross Company, Inc., Atlanta, Ga., with H. F. Wiedeman in charge of the design of the plant and acting in a general supervisory capacity during the construction. Others associated in the construction included George W. Hackett, resident engineer in charge of work; Lowell Cady, assistant resident engineer; A. Phelps & Sons, Knoxville, Iowa, contractors for dam and power house; Tucker & Laxton, Charlotte, N. C., contractors for filter plant and pipe lines; Rome Contracting Company, Rome, Ga., contractors for high-level reservoir; Burford, Hall & Smith, Atlanta, Ga., furnished and installed the power and pumping machinery.

The general construction program was carried out under the supervision of R. B. Simms, superintendent of the Spartanburg Water-Works. The incumbent Water Commissioners who initiated the idea of a new plant are D. W. Hendrix, chairman; W. R. Dillingham and C. L. Cannon.

Expansions for South Georgia Power Company.

Discussing an expansion program which it now has under way, the South Georgia Power Company, Albany, Ga., H. W. Patterson, manager, advises the MANUFACTURERS RECORD that the company plans to build 200 miles of 44,000-volt and 11,000-volt transmission lines, and that the Columbus Electric and Power Company, Columbus, Ga., will build a 110,000-volt line from Columbus to Americus, Ga., connecting the system of the Columbus Electric and Power Company with that of the South Georgia Power Company. The work is in charge of the Division of Construction and Engineering of Stone & Webster, Inc., with G. F. Harley as superintendent of construction.

Lake Lure Residences to Cost \$750,000.

Chimney Rock, N. C.—The Yarrow Construction Company of Asheville has purchased residential tracts in Luremont on Lake Lure from Chimney Rock Mountains, Inc., developers of the property, on which it is planned to erect 50 residences. It is estimated that the program will ultimately involve an expenditure of \$750,000. The dwellings will be of frame, stucco, brick veneer and native stone, with English and French architecture predominating. Construction is expected to begin at once with the building of a workmen's camp to accommodate 100, and it is contemplated that a house will be completed each week after the first 60 days. H. L. McDonald, draftsman for the Yarrow Company, and H. H. Warner of Lake Lure will co-operate in the design of the residences.

The Camnitz Realty Company, Forest City, N. C., is erecting a \$7500 dwelling in Luremont, while another of similar design and construction has been started. C. H. Ward of Miami, Fla., a director of Chimney Rock Mountains, Inc., also plans to build a \$20,000 brick Italian villa at Luremont.

Report of Rivers and Harbors Congress.

The report of the proceedings of the twenty-first convention of the National Rivers and Harbors Congress, held at Washington on December 9 and 10, 1925, has been published in book form with several illustrations, including portraits of the new president, Hon. Riley J. Wilson, M. C.; the retiring president, Hon. John H. Small, and also of three officers of the Congress who died during the year, Messrs. C. W. Hodson, A. L. Crocker and William B. Rodgers. The report is full and complete and abounds in general interest. Not the least entertaining and impressive of its contents is the narration—by a Naval officer who was on board of the craft—of the last trip of the ill-fated airship Shenandoah and how the disaster occurred. The report was prepared by S. A. Thompson, secretary and treasurer of the Congress, Washington, D. C.

Contract for \$350,000 Hotel at Sherman.

Sherman, Texas.—Contract has been awarded by the Sherman Hotel Company to the Bellows-MacLay Construction Company of Dallas for the erection of the proposed hotel here to cost about \$350,000, with furnishings and equipment. The building will be five stories and basement, of brick, stone, tile and reinforced concrete construction, and will be provided with elevator service. Boyle & Carrington are the architects and Gardner & Howe structural engineers, both of Dallas.

Large-Size Manufacturing Plants Shown As Utilizing Labor Most Effectively.

Large-scale industry—that is, the group of manufacturing plants with an annual output of \$1,000,000 or more—is by far the most efficient in the utilization of labor, according to an analytical study of comparative productivity of plants of varying sizes, made by the National Industrial Conference Board, New York. While the figures obtained in that respect substantiate the general American experience that productive efficiency tends to increase with size of establishment, they also reveal that during the period 1919-23 the medium-sized plants, particularly those with an annual output ranging from \$20,000 to \$500,000, have gained in labor utilization efficiency on both the group producing from \$1,000,000 a year upwards and the group of very small plants producing less than \$20,000 worth of manufactures a year.

According to the Board's analysis, production per worker in plants with an annual output of from \$1,000,000 upwards in 1923 was \$1481 for every \$1000 produced per capita by workers in all plants with less than \$1,000,000 annual output; that is, the per capita output of the larger plants was 48.1 per cent greater in that year than the per capita production of all similar plants combined. In 1919, however, the per capita production of workers in the larger plants had been \$1590 for every \$1000 produced per worker in all the smaller plants.

Of the smaller plants, those with an output of from \$100,000 to \$500,000 in 1919 produced \$717 worth per worker for every \$1000 produced per worker in all other plants, those of larger and smaller output combined, while in 1923 they produced \$762 worth per worker for every \$1000 produced per worker in all other plants, indicating an increase of 6.3 per cent in relative per capita production from 1919 to 1923.

The group comprising plants of the next larger size, those with an annual output of from \$500,000 to \$1,000,000, while also showing a relative increase in per capita productivity during the same period, does so in a lesser degree. Their production per worker in 1919 was \$825 worth for every \$1000 produced per worker in all other plants, and \$845 in 1923, a relative increase in per capita productivity of only 2.4 per cent.

The group of establishments with an annual output of only \$20,000 to \$100,000 increased its relative per capita production from \$633 in 1919 to \$673 in 1923 for every \$1000 of per capita production of workers in all other plants, showing a relative increase in productivity of 6.3 per cent. Very small plants, those producing \$20,000 worth or less per year during the same period, showed a decrease in production per worker of 3.1 per cent as compared with the per capita production of all other plants combined.

The relative importance and growth of large-scale industry is strikingly reflected in the following data compiled by the Conference Board: While in 1904 plants with an annual output of from \$1,000,000 upwards constituted only 1.3 per cent of the total number of all establishments, they employed in that year 26.1 per cent of all wage-earners and produced 38.1 per cent in value of all manufactured goods. In 1923 they constituted 5.3 per cent of the total number of all establishments, but they employed 57.1 per cent of all wage earners and produced 66.4 per cent in value of all manufactures. In 1919, also, they employed 57.1 per cent of all wage-earners, but produced 68 per cent in value of all products, or more than in 1923, with the same percentage of the total number of workers as in 1923.

The Board points out, however, that the production figures cited, while significant, are relative, and valid only as regards the per capita production in each given group, compared with the per capita production in all other groups

combined, and hence are not applicable in appraising the efficiency of any individual plant, and do not allow conclusions as to any year later than 1923, the latest for which complete statistics are available.

National Foreign Trade Council Report.

To both those who attended and those who did not attend the thirteenth annual convention of the National Foreign Trade Council at Charleston, S. C., last April, the report of the proceedings, just issued, will be of equal interest and of great interest. Besides carrying verbatim reports of the speeches, addresses and discussions, the book has a comprehensive index, and the 900 or more items of foreign trade covered at the convention are made readily available.

Coincidentally, the National Foreign Trade Council issues a pamphlet, "Foreign Trade for Southern Business Men," containing addresses by such prominent Southern leaders as R. Goodwyn Rhett, George Gordon Crawford, Thomas J. Burke, Dr. Erich W. Zimmermann, E. T. H. Shaffer and J. Spencer Smith. A foreword by Mr. Crawford and the opening remarks by James A. Farrell, chairman of the National Foreign Trade Council and president of the United States Steel Corporation, are appended to the other features of the pamphlet.

Among the many interesting items in the report are the final declaration of the convention, an article on the trade advisor service, the papers of the various sessions of the convention and of the numerous groups, and a list of the delegates. Among the 1014 delegates were 222 corporation presidents, 437 general managers, vice-presidents and other organization officials, and 132 sales, export, traffic, credit, advertising and other departmental managers. Among the groups were 308 manufacturers, 162 transportation men, 113 professional and Government delegates and 96 bankers, the entire attendance representing 36 states and 18 foreign countries, while 542 of the total were residents of the South.

Secretary O. K. Davis has compiled a report that undoubtedly will be of great value to a very wide range of American business interests, especially in the Southern states.

Contract for \$1,000,000 Elks Building.

Memphis, Tenn.—General contract has been awarded to the H. J. Gilbertson Construction Company of this city for the erection of the new Elks building here, which will ultimately cost about \$1,000,000. The building will be 12 stories, of concrete and steel construction, and will contain lodge and clubrooms, ballroom, libraries, gymnasium and other facilities, in addition to 150 hotel rooms on the upper floors. George Mahan, Jr., and J. J. Broadwell of Memphis are the architects. Contracts for plumbing, heating, electrical work and elevators will be awarded on July 28.

Savings Deposits Increase 40 Per Cent in Tampa.

Savings deposits of Tampa's five downtown banks have increased more than 40 per cent in the last year, reports the Tampa Morning Tribune. The aggregate savings deposits amounted to \$17,989,361, as compared with \$12,793,851 on June 30 last year.

These figures do not take into account the savings deposits of the various smaller banks in the city, all of which report a good year and show equally as large gains in savings.

Preliminary plans are being prepared by Henry T. Phelps, San Antonio, Texas, for a 12-story and basement office building to be erected at Commerce and Navarro streets, San Antonio.

Early Forecasts Indicate Smaller Crops Than Last Year.

The Government's July 1 crop estimate shows a possible production of 5,146,400,000 bushels of grain, compared with 5,475,900,000 bushels harvested last year and the average of 5,378,400,000 bushels harvested for the five years 1921-1925. The indicated cotton production, as of June 25 estimate, is approximately 15,635,000 bales, as compared with 16,085,900 bales produced in 1925 and the five-year average of 11,513,000 bales produced during 1921-1925.

In commenting on the 1926 crop estimates, the Crop Reporting Board of the Bureau of Agricultural Economics says:

"On July 1 the composite condition of all crops was 6.4 per cent below the average July condition during the last 10 years. There is still time for a substantial improvement, but, considering all crops, there is now little chance that yields per acre will equal those usually secured. The chief reason for the present unfavorable outlook has been deficient rainfall in portions of the North Central and Eastern states.

"A production of 2,660,780,000 bushels of corn, or 8.3 per cent less than last year, is indicated by the July 1 condition of 77.9 per cent of normal. The average production of the five years 1921-1925 is 2,848,294,000 bushels. This condition is the lowest for July on record, except the 72 per cent reported in 1924. Throughout the entire country the growth of the crop is generally uneven and backward because of the late, cool season and deficient moisture over wide areas.

"A total production of 567,762,000 bushels of winter wheat is indicated by the July 1 condition. This is an increase of about 24,000,000 bushels over the outlook of a month ago and 18,000,000 bushels above the average of the past five years. It exceeds the short production of 1925 by 169,000,000 bushels. Rains and cool weather throughout most of the important winter-wheat states resulted in considerable improvement of the crop during June just prior to harvest. Heads have filled out well, and the quality of the grain in most states is reported as excellent. Harvest is making rapid progress and has extended to practically all heavy producing sections. Yields are generally running higher than expected a month ago, except in limited areas where rainfall has continued deficient. Texas and Oklahoma are harvesting a crop of excellent quality, almost double the five-year average produced in these states and about three times the short crop of 1925.

"A total crop of approximately 200,000,000 bushels of all spring wheat is indicated by the July 1 reported condition of

64.8 per cent. Last year 271,000,000 bushels of all spring wheat were produced.

"The condition of oats declined about 5 per cent between June 1 and July 1 of this year, while the usual decline during this period is about 3 per cent. Sharp declines in the West North-Central states and Far Western states were only partially offset by improved conditions in Eastern and Southern states.

"While the acreage of oats on July 1 showed an increase of 1 per cent over the acreage harvested in 1925, the indicated production was nearly 11 per cent less than last year, or 1,334,260,000 bushels for 1926, compared with 1,501,909,000 last year, though slightly in excess of the five-year average production. The condition on July 1, 1926, was 74.5 per cent, or nearly 9 less than the 10-year average condition of 83.2 per cent.

"The acreage planted to grain sorghums shows an increase of 6.7 per cent. All important producing states, except Kansas, show an increased acreage planted and a satisfactory growing condition, indicating a probable production of 94,177,000 bushels. This is nearly a third more than the short crop of last year.

"The area planted to rice is estimated to be about 12.1 per cent larger than last year's acreage. The acreage in Louisiana, which usually produces half of the rice crop of the United States, is 1 per cent greater than that planted in 1925. Owing to the loss from drought last year of about 10 per cent of the Louisiana rice acreage, the present acreage in that state is about 12 per cent greater than the area harvested last year.

"Condition of this crop in all the rice-producing states is on the whole good, although somewhat below the 10-year average on July 1. A production of nearly 6,000,000 bushels better than 1925 harvest seems likely from present condition, and about 4,000,000 above the average of the past five years.

"Apples, peaches and pears each showed a condition on July 1 about 20 per cent higher than the average condition reported on that date during the last 10 years. Prospects may be described as almost uniformly good.

"The relatively high price paid for potatoes during the past season has resulted in the planting of a substantially increased acreage in the Western states, where the price has been high for two years in succession. There was also a substantial increase in planting of early potatoes in the South. Elsewhere the acreage has generally decreased. The yield of potatoes in the United States is determined largely

ESTIMATED ACREAGE AND FORECASTED PRODUCTION OF THE COUNTRY'S PRINCIPAL CROPS, JULY 1, 1926.

Acres, 1926	Crops	Production	
		Indicated by condition†	Harvested
101,074,000	Corn, bushels	July 1, 1926 2,661,000,000	1925 2,905,000,000
57,687,000	All wheat, bushels		1921-1925 2,849,000,000
45,945,000	Oats, bushels	767,000,000	802,000,000
8,842,000	Barley, bushels	1,334,000,000	1,327,000,000
*3,601,000	Rye, bushels	191,000,000	217,000,000
2,843,000	Flaxseed, bushels	39,700,000	48,600,000
1,018,000	Rice, bushels	19,900,000	22,000,000
4,395,000	†Grain sorghums, bushels	39,600,000	34,300,000
59,080,000	Hay, all tame, tons	94,200,000	71,000,000
1,754,000	†Beans, dry, edible, bushels	77,800,000	86,700,000
939,000	Peanuts, pounds	18,600,000	19,500,000
.....	Apples, total crop, bushels	624,000,000	694,000,000
.....	Apples, commercial crops, barrels	208,000,000	172,000,000
.....	Peaches, total crop, bushels	37,500,000	33,000,000
.....	Pears, total crop, bushels	61,700,000	46,600,000
.....	Grapes, tons	24,600,000	19,800,000
3,202,000	Potatoes, white, bushels	2,440,000	1,970,000
832,000	Sweet potatoes, bushels	334,000,000	326,000,000
1,658,000	Tobacco, pounds	68,300,000	62,500,000
389,000	Sorghum syrup, gallons	1,139,000,000	1,365,000,000
		29,200,000	25,500,000

*Acres remaining for harvest. †Principal producing states or decreases with changing conditions during the season.

‡Interpreted from condition reports. Indicated production increases

by weather conditions during late summer, so it is impossible to forecast production accurately at this time, but condition of the crop on July 1 was the lowest on that date since 1911, and unless prospects improve the crop will total only 334,044,000 bushels. This would be 8,000,000 bushels above the short crop of last year and about 90,000,000 bushels less than the big crop of 1924.

"A substantial increase is reported in the sweet-potato acreage. New Jersey, Delaware, Maryland and Virginia indicate increases over last year ranging from 5 to 20 per cent. Usually these states ship two-thirds of the sweet potatoes moving to market by rail. Condition of the crop points to a per acre yield slightly above that of the past two years, but 17 bushels below the average per acre yield of the preceding five years. The indicated production is 6,000,000 bushels in excess of the 1925 harvest and 14,000,000 bushels above the very short crop of 1924.

"The acreage of tobacco in the United States declined about 6 per cent in 1926 compared with 1925. Among the groups of types the Bright flue-cured and air-cured groups show the least change, 2 and 1 per cent decreases, respectively. Fire-cured types decreased in varying amounts, the most significant change being in the Western fire-cured type of Kentucky and Tennessee, which fell off approximately 40 per cent."

Increased Summer Motor Travel in Florida.

Official figures tabulating the motor travel over the Gandy bridge (the longest of its kind in the world), connecting St. Petersburg and Tampa, show a 45 per cent increase in automobiles carrying "foreign license plates" for the 30 days ending July 6 compared with the similar period of 1925.

It is also reported that southbound motor travel this summer at Lake City, in the interior of the state, exceeds that of last September. Most of this travel is bound for Gulf Coast points, it is stated, and the majority of the motorists are coming into Florida to go into business and become permanent residents.

Southbound automobile tourists traveling through one point of entrance into the lower part of Florida for the month of June shows 2754 automobiles with "out of state" licenses, carrying 10,558 passengers over the Jacksonville-St. Johns River bridge, at Jacksonville. This is an increase of 368 automobiles and 1226 passengers compared with the preceding month of May.

While these automobiles came from practically every state in the Union, 344 were from Georgia, 195 from South Carolina, 194 from New York state, 185 from North Carolina, 125 from Tennessee, 117 from Pennsylvania, 109 from Ohio and 104 from Alabama. Fifty-nine of the cars carried California licenses and 5 were registered from Canada.

Arkansas in the Dixie Magazine.

There are many interesting things in the "Arkansas Resort Number" of the Dixie Magazine. It affords a comprehensive understanding of the manifold attractions of Arkansas by means of accurate descriptions and a series of fine illustrations. Not only are the natural beauties of the state adequately portrayed, but many facts concerning its history are entertainingly set forth. The Hot Springs are perhaps the most widely celebrated feature of Arkansas and one of the articles does them full justice, the reading matter being illuminated by several pictures, one of which shows the springs as they appeared to the pioneers, another as they used to be in their beginnings as a health resort and a third shows the city of Hot Springs as it is today. The Dixie Publishing Company, Little Rock, Ark., of which Mrs. N. B. Ford is owner, publishes the magazine, and William McComb is acting editor.

Jackson to Have Another Trunk Line Railroad.

By L. E. FOSTER, Manager, Chamber of Commerce, Jackson, Miss.

Under the congressional plan of railroad consolidation, Jackson will have another great trunk line. The purchase of the Jackson and Eastern Railroad by the Gulf, Mobile and Northern Railroad assures the completion of this line into Jackson, which has been held up by litigation as to the use of the Alabama and Vicksburg tracks and terminals. The New Orleans Great Northern Railroad, which connects with the Illinois Central Railroad south of the city, has been using the Illinois Central tracks and terminals for years. The New Orleans Great Northern Railroad, however, has always had in mind the completion of its line into Jackson and has had its right of way and terminal grounds for many years. It is planned to extend the lines through the city to Pearl River, where it will connect with the Jackson and Eastern Railroad, under the control of the Gulf, Mobile and Northern Railroad. Traffic arrangements have been tentatively worked out between these lines.

The Illinois Central Railroad operates its main trunk line from Chicago to New Orleans through Jackson and has a number of smaller roads converging in the city. It recently purchased the Gulf and Ship Island Railroad and is rebuilding it. The Illinois Central also recently secured approval of the Interstate Commerce Commission to lease the Alabama and Vicksburg and the Vicksburg, Shreveport and Pacific Railroads, composing a great Eastern and Western trunk line. With this new traffic arrangement and possible consolidation with the Burlington Railroad, Jackson's railroad facilities are greatly enhanced.

An advantage of the completion of the Jackson and Eastern Railroad is that it will open up and makes this city the logical market for more than two billion feet of standing timber in the Pearl River Valley. It will also open up a vast area hitherto rather inaccessible to the city and it is conservatively estimated that it will increase Jackson's retail trade population from 50,000 to 100,000.

It is estimated that it will cost \$1,500,000 to complete these lines and build terminals in the city. A number of new industries are ready to locate here as soon as final details of the traffic arrangement have been definitely worked out.

To meet the demands of this rapidly growing city, which has been quickened by this merger of roads, another million-dollar hotel is being planned, as well as a 10-story office building and many other warehouses and commercial buildings. There are about 100 residences now under construction here.

Georgia Peaches and Melons Moving in Solid Train Loads.

All records in freight movement through the Macon terminals were broken during the week ended July 10, according to W. E. Stewart, assistant general freight agent of the Central of Georgia Railway. The largest single day's business in the history of the road at this terminal was handled Friday, when a total of 4011 cars were cleared through the yards in 24 hours. This was 254 more cars than were ever handled here in the same period and 559 more cars than were ever handled in a like period of any other week.

There was a total of 57 trains of freight forwarded from Macon between midnight Thursday until the same hour Friday night, and approximately the same number of inbound trains were handled. This does not include any passenger trains which were not delayed in any way. These shipments

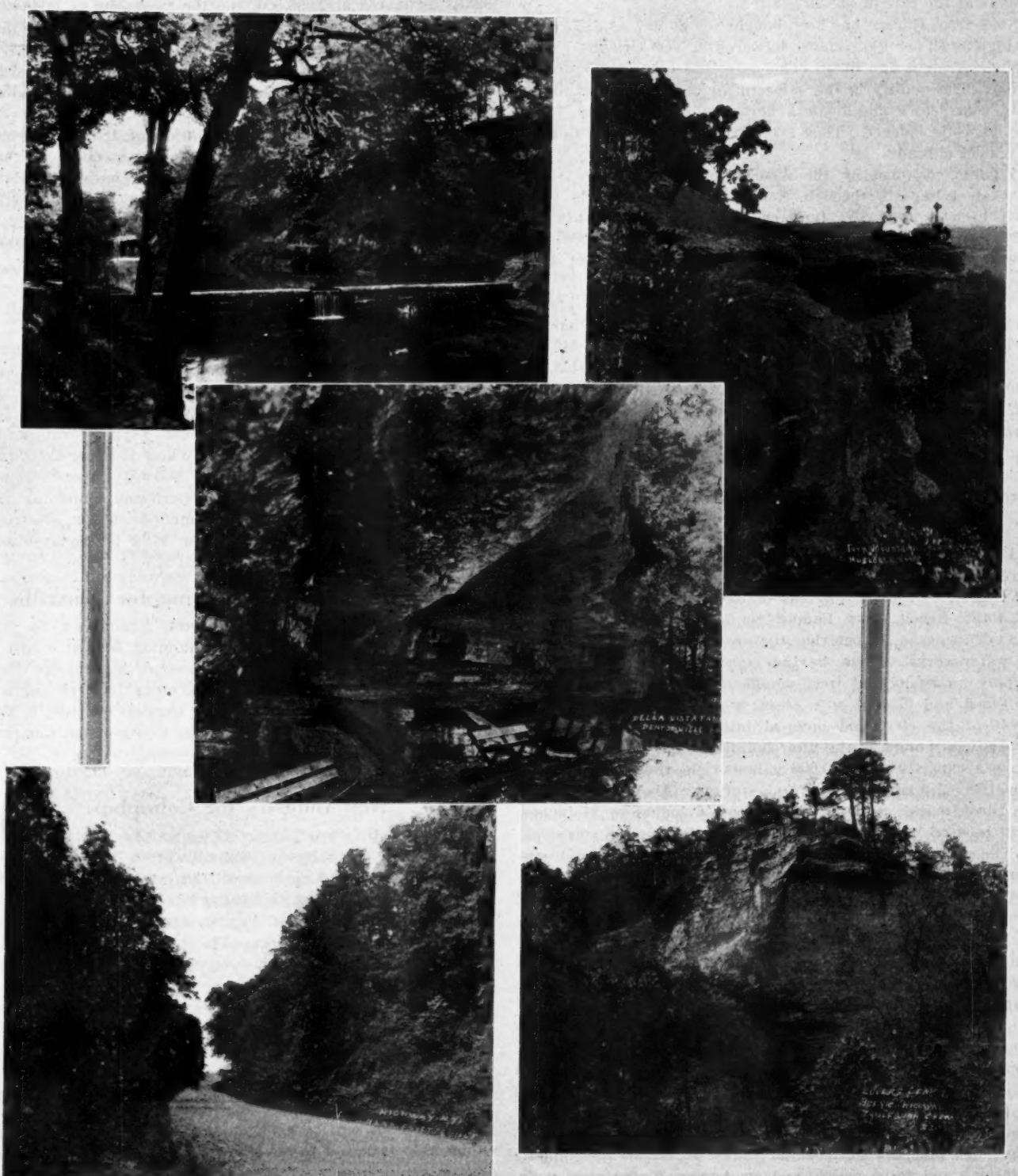
were made up of peaches, watermelons and other perishable freight, with a good proportion of standard business.

Mr. Stewart called attention to the fact that on Thursday the Central of Georgia Railway broke all previous records with a movement of 3757 cars of freight. Then came the

heavier movement of Friday with 4011 cars, which railroad officials say will be hard to break. The greatest record for a 24-hour period previous to the week just closed was on June 26 of last year, when 3452 cars were handled.

Peaches and melons are moving in solid trainloads.

Some Beauty Spots in Oklahoma and Arkansas.



Following the recent meeting of the National Association of Real Estate Boards at Tulsa, Okla., the realtors took a post-convention tour through the Ozark region of Arkansas and Oklahoma. About 700 real estate visitors made the trip, and the views pictured above will give some idea of the scenic attractions of the section which they traversed.

Heavy Imports of Steel at New Orleans.

New Orleans, La., July 17—[Special.]—Steel imports from European countries are steadily increasing through New Orleans as a result of the keener competition abroad, which puts steel here cheaper than it can be bought from American mills.

Steel-billet bars cost \$2.10 per 100 pounds in Birmingham and freight to New Orleans is 30 cents, total \$2.40. This is at the rate of \$48 a ton. Steel-billet bars cost in Pittsburgh about \$1.90, freight .67 cents; total, \$2.56 per 100 pounds. This is at the rate of \$51.20 per ton.

Steel from Europe has been bought for as low as \$1.75 and as high as \$2 per 100 pounds, delivered in New Orleans. This includes freight and duty. This is at the rate of \$35 to \$40 a ton. The quality is the same in all cases. This explains why contractors and dealers here are turning away from the domestic market. They are forced by the competition to buy steel abroad.

Figures compiled by the Association of Commerce show that steel imports through New Orleans so far this year have been as follows: January, 773,724 pounds; February, 2,208,760 pounds; March, 1,680,686 pounds; April, 3,607,853 pounds. The grand total is 8,271,023 pounds, or about 4100 tons.

The largest item is steel bars, more than seven and a quarter million pounds. Of structural shapes, the imports were 664,061 pounds; of rails and bars for railways, 348,079 pounds. France has been the greatest contributor—4,465,208 pounds during the four-month period. Then Belgium, 2,178,092, and third, Germany, 605,789. Sweden, Netherlands and Great Britain were other contributors.

Fort Lauderdale Water and Sewer Improvements to Cost \$2,370,000.

Discussing proposed water and sewer facilities to be constructed for the city of Fort Lauderdale, Fla., at a cost of \$2,370,000, Solomon, Norcross & Keis, consulting engineers, of Palm Beach, Fort Lauderdale and Atlanta, advise the MANUFACTURERS RECORD that the proposed work contemplates a water-works system having eight wells as a source of supply, to be located west of the city. The water will be softened and filtered at a plant, which also will be located west of the city, and pumped into town by motor-driven centrifugal pumps in the filter building. The filter plant will have a capacity of 6,000,000 gallons, and there also will be 2,000,000 gallons of clear-water storage. About 50 miles of cast-iron mains, ranging in size from 6 inches to 24 inches, will be used in the force main and distributing system.

The proposed sewer work will embrace a storm-sewer system and a system of sanitary sewers. In the latter, sewage will be pumped to a disposal plant in the western sections of the city, three motor-driven centrifugal sets and five ejectors to be used in eight pumping stations. Activated sludge will be used for the disposal of sewage, the plan being to use pre-sedimentation with clarifiers ahead of the activated sludge tanks and sedimentation and clarifiers after them. Sludge-digestion tanks with agitators will be installed for the disposal of sludge. There will also be five miles of 8 to 16 inch cast-iron pipe for the sewer-force main and five miles of 4 to 6 inch cast-iron and wrought-iron pipe for air.

Bids will be received on August 3 for the distribution system; on August 5 for the filter plant, pumping station and deep-well pumping stations; on August 10 for sewage-pumping stations and force mains, and on August 12 for sewage-disposal plant. Plans and specifications may be obtained from the Fort Lauderdale and Atlanta offices of the engineers. Proposals on the sanitary and storm-sewer systems will be called for later.

Decreasing Farm Population.

Net decreases in the farm population were recorded in all geographic divisions of the country last year. It is estimated that there were 479,000 fewer people on farms on January 1 than there were on January 1, 1925. The Agricultural Department estimates the farm population at 30,655,000, or a decrease of 1.5 per cent, compared with the estimate of January 1, 1925. The figures include all men, women and children living on farms.

The movement from farms to cities, town and villages in 1925 is estimated at 2,035,000, and the movement to farms at 1,135,000, a net loss in farm population of 901,000 persons. However, births on farms during 1925 are estimated at 710,000 and deaths at 288,000, leaving a natural increase of 422,000, which, therefore, reduces the loss due to cityward movement to 479,000.

In 1924 a net loss in farm population of 182,000 was reported. The gross movement from farms to cities in that year was 2,075,000 and 1,396,000 persons moved back to farms, giving a net loss of 679,000 persons, not counting births and deaths. The total estimated farm population January 1, 1926, of the Southern states was approximately 17,000,000, or a decrease of about 1.3 per cent compared with 1925.

Contracts for Second Unit of Capitol.

Charleston, W. Va.—General contract has been awarded by the Capitol Building Commission to the James Bair Company of New York, at \$1,151,000, for the second unit of the state capitol, while sub-contracts have been awarded as follows: Otis Elevator Company, New York, elevators, at \$20,910; Enterprise Steam and Hot Water Heating Company, Baltimore, heating and ventilating, \$66,826; West Virginia Heating and Plumbing Company, Charleston, plumbing and gasfitting, \$34,500; Rosenblatt & Hunt, Charleston, electrical work, \$30,731. Cass Gilbert of New York is the architect.

\$1,000,000 Medical Building for Amarillo.

Amarillo, Texas.—Plans have been announced for the erection of a 10-story medical-arts building here at a cost of \$1,000,000. The structure, to be erected by Charles Fisk, banker and city commissioner, will be 60 by 140 feet, and will be located at 8th and Polk streets. General contract is said to have been awarded to the Gilsonite Construction Company of Dallas.

New Industry for Columbus.

Columbus, Ga.—Due to activities of the New Industries Committee of Columbus, a new enterprise for the manufacture of cloth-covered caskets will be established here. This is the Columbus Casket Company, which plans to begin production about the first of August, employing approximately 25 men and women workers. The company will utilize the woodworking plant formerly occupied by the Cen-Tennial Cotton Gin Company.

To Hold Open-Shop Meeting at Dallas.

The tenth semi-annual session of the American Plan Open Shop conference, A. C. Rees, chairman, Salt Lake City, Utah, will be held on November 15, 16 and 17 at Dallas, Texas. These sessions will be held under the patronage of the Open Shop Association, with C. A. Jay as chairman of the committee on arrangements.

An election has been called for October 11 by the City Commission of Montgomery, Ala., on a bond issue of \$1,000,000 for building a high school.

THE IRON AND STEEL SITUATION

Steel Production Holding Up Well.

Pittsburgh, July 19—[Special.]—There was little loss in steel production on account of the holiday, and the mills are running approximately as well as in June, with chances about even as to July production being above or below that of June. There will be no material difference. The decline from the record rate of March has been smaller than expected, only 13½ per cent to June. The trade looks for a seasonal decrease of larger amount.

To many observers the pace seems a little too high to be maintained, for there has been some decrease in consuming activities in general, though not a great deal, and in the automobile trade, at freight-car shops and in the oil and gas fields the prospects are plain that there will be decreases as the year wears on.

It is not a case, therefore, of there being summer dullness in steel production and of there being prospects of an upward reaction. Rather, there is heavier production than would be expected, and production can taper off considerably and still make this year a record one, just as last year was. Two record years in succession are, of course, unusual.

Predictions continue that building activity will decline, but all the steel trade can see by the orders it receives is a continuance of high activity. Fabricated structural steel lettings in the past two weeks have been slightly below the average, but the pace in the past 10 weeks is well above that of earlier in the year. There is a good movement of nails, also of sheets for making metal lath.

Buying of steel by the automobile trade has been at a higher rate in the past 30 days than for a month or two previous, this being due to many factories suddenly putting new models into production. This trade's demand for steel will naturally taper off somewhat in the later months of the year.

A remarkable showing is made in oil-country tubular goods. Pipe mills are not making all their deliveries now in keeping with recent promises, and are now making longer promises on new business, up to eight or nine weeks on certain sizes of casing and on tubing and line pipe. There is a good bit of line-pipe business in sight, but mills would prefer the projectors to hold off, as the tonnage would be more welcome later.

Merchant-pipe demand is good, but mills are fully abreast of it in shipments. Total production of pipe mills is at a new high-record rate.

Finished steel prices are holding their own. In most lines there have been no changes for quite a while. In bars, shapes and plates the \$2 a ton advance attempted late in May and in June is partially successful, but the full test is yet to come, as the large business was generally covered on the eve of the advance, and there are not many large tonnages going now. On account of the recent heavy buying, deliveries in these lines are now particularly large.

The sheet market has shown no appreciable change in prices for three or four weeks, there being about the same amount of irregularity as formerly. Producers are predicting an advance, but such little increase in demand as has occurred thus far is insufficient to stiffen prices.

The Valley pig-iron market remains quiet, while the heavy buying of the past few weeks in other districts has now largely spent its force. Valley prices remain at \$19 for Bessemer, \$17.50 for basic and \$17.75 for foundry.

Connellsville coke has eased off, there being offerings of spot lots again, after the clean-up caused by the holiday. Spot-furnace coke is \$2.75 to \$2.85, or a shade above its low point at the middle of June.

Heavy melting steel scrap has stiffened further, being now

quotable at \$16.75 to \$17. The market is made chiefly by dealers who are buying in expectation of a rise in prices obtainable from mills.

Some Further Activity in Sale of Iron.

Birmingham, Ala., July 19—[Special.]—A little freshet in the stream of pig-iron selling added to the unfilled tonnage on books of Alabama furnace operators lately. One of the smaller producers has practically withdrawn from the activity and the larger makers of iron which are able to take on business are confident that it won't be long now before there will be need for care to be exercised. Quotations continue at \$21 per ton, No. 2 foundry. Larger melters of iron have purchased some iron again, but not up to what is believed are their entire requirements for the quarter. Some inquiries have recently sprung up for the fourth quarter.

With the little impetus in the buying again has come an urgency for delivery. Several melters who placed orders a few weeks ago are asking early delivery and, as a consequence, there promises to be a greater decline in surplus stock than during the previous few weeks. The Sloss-Sheffield Steel and Iron Company is moving some of the iron from off yards at the Sheffield furnace, this iron moving into the Middle West. One or two producers of foundry iron of this state have but a small quantity of stock on yards, comparatively speaking.

No change is seen in the prospects of the future as to melt of iron, all indications pointing to the demand warranting full operation of plants and steady melting. Cast-iron pressure pipe, for instance, cannot be made in too great quantity. Shipments are active. Soil pipe and fittings are also maintaining a lively pace, and much iron is going in that direction. Stove foundries are beginning to melt in greater quantity, preparing for their busy season. Other consumers of pig-iron are manifesting interest and assert that there will be need for the product indefinitely. Pipemakers have some iron on yards, but smaller interests are supplied for a couple of weeks at the most. Fourteen blast furnaces continue on foundry iron, nine on basic and one on ferro-manganese. The Gulf States Steel Company has some basic iron and also steel billets on the yards, so that when its blast furnace at Alabama City, near Gadsden, and the open-hearth furnaces are shut down there will be no cause for lagging in the steel-finishing or bar mills. The relining of the furnace and readjustment of the open-hearth furnaces are but steps looking to steady and active operations during the early fall and through the remainder of the year. The Sloss-Sheffield Steel and Iron Company is almost ready with its No. 3 blast furnace at North Birmingham for resumption of operation, and will immediately begin the relining of the No. 4 ironmaker at that place. This work completed, it is believed that five blast furnaces can be kept in steady operation by the Sloss-Sheffield until the new blast furnace No. 2, of the city furnaces, is up sufficiently to call for the blowing engines and other apparatus which will be taken from the present No. 2 furnace. The Woodward Iron Company is getting splendid results from its five blast furnaces, the two Vanderbilt furnaces being of small capacities. The Tennessee Coal, Iron and Railroad Company has its Ensley group of blast furnaces, six in number, producing basic iron, one of them with around 600 tons daily output. The Alice, Oxmoor and three Bessemer blast furnaces are making iron, with one Bessemer furnace under repairs. The Central Iron and Coal Company has a blast furnace on foundry iron, while the Republic Iron and Steel Company has two making iron.

No change in the activity in the steel circles of Alabama

is reported, the billet production not being sufficient to keep all mills in full operation. It is with this in mind that progress on the two large blast furnaces, both to be of 600 tons of basic iron daily, and the four open-hearth furnaces under construction is being watched. Splendid time is being made in this work, and early in the coming year it is believed there will be operation.

Steel rail of the extraordinary lengths, now held in such high favor by the railroads, is being produced at the Ensley mills, and the works are going to capacity. With a considerable amount of unfilled tonnage, the rail mill is not only assured of steady operation through the remainder of the year but well into 1927. Other shapes of steel are in good demand. Connors Steel Company continues shipping cotton ties in quantity, the mill at Woodlawn having been going at capacity practically for some time. The new department of this company, manufacturing reinforced concrete bars, angle bars, and so on, using rerolling rail, has business which warrants full operation.

Cast-iron pressure-pipe market is strong, the make being held almost to capacity. Quotations continue at \$40 on six-inch and over sizes. Shipments of pressure pipe have equaled the make for many months. Soil pipe and fittings are in fairly strong demand and some stock has been taken from the warehouses recently. Stove foundries are making up stock in anticipation of an active market. These interests are using considerable Southern iron.

Coal production in Alabama will take on an impetus by August, when domestic buying will start in and consumers of steam coal will be ready to take a larger tonnage. The coke demand is good, everything considered, and by-product coke works are active. Contracts are reported which will take much coke from this section.

Scrap iron and steel shows but little improvement, though dealers are still delivering on old contracts and the few new orders coming in. Very little change has been made in quotations for some time now.

Quotations for pig-iron and iron and steel scrap follow:

PIG-IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$21.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$21.50; iron of 2.75 to 3.25 per cent silicon, \$22.00; iron of 3.25 to 3.75 per cent silicon, \$22.50; iron of 3.75 to 4.25 per cent silicon, \$23.00; charcoal iron, f. o. b. furnaces, \$30.00.

OLD MATERIAL.

	\$17.00 to \$18.00
Old steel axles	17.00 to 18.00
Old iron axles	13.00 to 14.00
Old steel rails	13.00 to 14.00
Heavy melting steel	13.00 to 14.00
No. 1 cast	16.50 to 17.00
Stove plate	14.00 to 14.50
No. 1 railroad wrought	12.00 to 13.00
Old car wheels	16.00 to 16.50
Old tramcar wheels	16.00 to 17.00
Machine shop turnings	8.00 to 8.50
Cast-iron borings	8.00 to 8.50
Cast-iron borings (chem.)	15.50 to 16.50

Some Facts in Georgia's History.

Every Georgian should read Mildred Lewis Rutherford's new book, "Georgia, the 13th Colony." Miss Rutherford, who is the state historian of the U. D. C., has compiled and presented facts in this volume which should be an inspiration not only to the people of Georgia but to everyone else. The book deals with the actual history of the state, beginning with a brief account of De Soto's adventures through Georgia, Oglethorpe's settlement and the origin of the Georgia Colony and other high lights in the history of the state during the Revolution, the Civil War and later periods.

There has been an honest endeavor by the author to present a clear and brief record of historical acts, which show how absurd have been some of the misstatements made in presenting Georgia's history in the past. Of particular interest is the long list of outstanding things in which Georgia and Georgians rank first. The book has a handy index, which makes it valuable for historical reference purposes.

RAILROADS

Freight Traffic Thus Far This Year Breaks All Records.

The greatest freight traffic that the railroads of this country were ever called upon to move in any corresponding period was handled without difficulty during the first five months this year, according to reports filed by the carriers with the Bureau of Railway Economics, Washington, D. C.

This traffic amounted to 187,869,465,000 net ton-miles, which exceeded by 385,598,000 net ton-miles, or two-tenths of 1 per cent, the previous high record for the corresponding period made in 1923.

Not only was this a record traffic, measured by the number of tons of freight carried one mile, but the number of cars loaded with revenue freight during the first five months in 1926 also exceeded any previous corresponding period.

Freight traffic moved during the five months this year, as shown by the total number of net ton-miles, was an increase of 6.4 per cent over the corresponding period last year and an increase of 8.7 per cent over the corresponding period in 1924.

In the Eastern district the volume of freight handled during the five months in 1926 was an increase of 7.3 per cent over the same months last year, while the Southern district showed an increase of 10.8 per cent. The Western district reported an increase of 3.2 per cent.

The volume of freight handled in May was also the greatest for any May on record, amounting to 39,831,820,000 net ton-miles. This exceeded by six-tenths of 1 per cent, or 234,175,000 net ton-miles, the best previous May, which was in 1923, while it also exceeded by 7.3 per cent the movement in May, 1925. In the Eastern district freight traffic in May showed an increase of 7.4 per cent over the same month last year, while the Southern district reported an increase of 7.7 per cent and the Western district an increase of 6.9 per cent.

Loading of revenue freight on the railroads during the week ended July 3 totaled 1,072,624 cars—the seventh week so far this year that freight loadings have been in excess of one million cars—according to reports filed by the roads with the Car Service Division of the American Railway Association. This was an increase of 10,372 cars over the preceding week, the gain being due principally to the heavier movement of merchandise and less than carload lot freight, miscellaneous freight, grain and ore. All other commodities reported decreases as compared with the preceding week. Since January 1 there have been 26,109,088 cars loaded with revenue freight, as compared with 25,194,689 cars loaded in the same period of 1925 and 23,943,056 cars in the corresponding period of 1924.

Florida East Coast Railway Receives Eight Big Engines.

The Florida East Coast Railway has received the first deliveries on its order for 23 locomotives of the Mountain type, which are being built by the American Locomotive Company. There are eight of these locomotives now in service. They are oil burners, and are capable of high-speed passenger work as well as hauling freight trains. One of these engines with its tender weighs 614,000 pounds in working order; the engine alone weighs 356,000 pounds. Driving wheels are 69 inches in diameter, boiler is 7 feet in diameter inside and cylinders 28 inches, with 30 inches stroke. Engine and tender together are nearly 83 feet long. Steam-working pressure is 210 pounds.

According to H. N. Rodenbaugh, vice-president, these are the largest locomotives yet ordered by the Florida East Coast.

and the largest of any type in the state of Florida. Mr. Rodenbaugh says:

"They are 40 per cent more powerful than the 300 series built in 1923 and 37 per cent more powerful than the 400 series built in 1924 and 1925. They are also 11 per cent more powerful than the 700-class type of the road recently purchased, which are now performing very satisfactorily with the large freight trains which the railway is handling. While they are only slightly more powerful than this class, they are capable of handling a relatively greater load at a much greater speed. The ability to handle heavy freight trains at a relatively high speed is a very important feature on a railroad such as the Florida East Coast, where the passenger business is relatively larger than is the case of most railroads. The freight train must move rapidly to keep out of the way of passenger trains, especially when the latter are as numerous as they are on this railroad.

"These engines are capable of handling a train of 110 cars with a length of approximately one mile. In their design particular attention was given to those features that produce efficiency and economy in operation. They are equipped with the latest in feed-water heaters, thermic siphon, superheater, electric headlight and cab-lighting equipment, two cross-compound air pumps, air-operated sanding and bell-ringing device, and force-feed lubricators for supplying a steady flow of oil to cylinders, valves and pumps."

\$8,000,000 Seaboard Air Line Bonds Sold.

Public offering of \$8,000,000 additional first and consolidated mortgage 6 per cent gold bonds, Series A, of the Seaboard Air Line Railway Company is being made by Dillon, Read & Co., Ladenburg, Thalman & Co. and Kissel, Kinnicutt & Co. Proceeds will be used to further the Seaboard's expansion program, discussing which S. Davies Warfield, president of the road, said:

"To meet the heavy increase in traffic the proceeds of these bonds will be used to increase facilities of the railroad, for extensions to the properties of the company and subsidiaries, for improvements, acquisitions, additions and betterments. We are installing 175 miles of automatic signals, additional to the 254 miles installed last year; it is the purpose to extend automatic signals to other portions of the system. Double tracking, lengthening and providing additional passing tracks and transfer facilities at important transfer points are among the facilities mentioned. The extension of the line from Brooksville and Inverness, some 22 miles, is also included in the facilities to be taken care of by the proceeds of these bonds, as well as to reimburse the company's treasury for expenditures for other purposes."

The passenger traffic of the Seaboard Air Line has grown to heavy proportions and the railroad has added extensively to its equipment, both engines and cars. The several departments of the company in development work are extending the textile and other industries in the South, as well as the intensive development of Southern lands in agricultural pursuits. The Seaboard traverses a territory prolific in cotton, tobacco, peaches and early vegetables in the middle section of the Southern states and the very great area of citrus fruits and vegetables in Florida.

As evidence of the growth of the system, gross operating revenues for 1925 aggregated \$62,864,710, against \$53,384,173 for 1924. For the first six months of 1926 there was reported an increase of 16 per cent over the same period last year.

To Connect Kansas City Southern and Missouri-Kansas-Texas Lines.

A press report from Port Arthur, Texas, says that the Houston-Port Arthur Railway Company, lately incorporated by J. S. Cullinan and others of Houston, Texas, is for the purpose of building a connection between the Kansas City Southern Railway and the Missouri-Kansas-Texas Railroad, both of which are back of the plan. The road will be about 85 miles long from Port Arthur to Houston, and it will connect at the latter point with the North Side Belt Railway, of which Mr. Cullinan is chief owner, and which reaches the Houston ship channel. Surveys are to begin soon.

HIGH EARNINGS FOR BALTIMORE AND OHIO RAILROAD.

President's Report for 1925 Shows Net Revenue of Over \$20,000,000.

The gross earnings of the Baltimore and Ohio Railroad for 1925 were the largest in its history, with the single exception of the year 1923, according to the report to the stockholders by Daniel Willard, president of the company. Contributing largely to the company's prosperity was the increased volume of bituminous coal, which constituted the largest single item of traffic handled, representing 44.7 per cent of the 104,637,773 tons of aggregate traffic moved; this bituminous coal traffic increased 6,487,495 tons over 1924 to 46,808,684 tons in 1925. There was also an increase in manufactured articles carried. Notwithstanding an increase of over 11 per cent in total revenue tonnage moved, there was a decrease in transportation expenses, indicating that the traffic was handled with greater efficiency and expedition.

The net income for the year was \$20,793,508, an increase of \$4,473,818 compared with the preceding year, equivalent to \$12.14 a share on the outstanding common stock. Gross operating revenues amounted to \$237,546,939, an increase over 1924 of 5.90 per cent. The total operating expenses were \$179,099,597, an increase over 1924 of 3.67 per cent. The ratio of operating expenses to revenues was 75.40 per cent, compared with 77.01 per cent in 1924, a difference in favor of 1925 operations of 1.61 per cent.

The commercial development department was instrumental in locating 389 new industries and also in bringing about 81 expansions of existing plants, representing in all a new plant investment of about \$33,000,000. Special attention was given to increasing soil fertility in West Virginia, Ohio and Indiana. Efforts to bring about the replacement of inferior livestock with purebred stock were continued. Activities for developing in boy and girl clubs an increased interest in better farm products were continued, and in this connection 11 scholarships were awarded during the year, the winners having the alternative of university training or educational travel.

The total expended for additions and betterments to road was \$8,226,693. As part of the plan for elevating the tracks of the several railroads in South Philadelphia, the elevation of the company's tracks on Delaware avenue between Queen and Bigler streets has been completed, and it is expected that the section between East Side and Orange avenue will be completed in 1926. The relocation of about seven miles of eastbound main track between Warwick and Sterling, Ohio, to bring it adjacent to the westbound main track was undertaken. The project will be completed this year. Grade crossings were eliminated at Stepney, Silver Spring and Virginia avenue, Cumberland, Md. Progress has been made in separating grade crossings at Allison Park and Elfindwild, Pa., in conjunction with the Pennsylvania State Highway Department. Work of eliminating grade crossings in Akron, Ohio, has commenced. Work has begun for eliminating the grade crossing at Columbus avenue, Sandusky, Ohio. A number of water-treating plants were completed in 1925, and additional plants will be finished this year. By strengthening bridges at many points improved operating conditions have been made possible. About 49 timber trestles were replaced by permanent structures. The elevator at Fairport, Ohio, was remodeled. A cold-storage plant was installed in the warehouse at Cincinnati.

A total of 2295 freight cars were rebuilt; 96 new all-steel passenger service cars and 5385 new freight cars were purchased. Orders were placed for delivery early this year as follows: Eighty-three pieces of all-steel passenger service equipment, 4000 steel box cars and 3000 all-steel hopper cars.

A large number of locomotives were rebuilt in the company's shops. Orders were placed for 50 heavy freight locomotives for delivery in 1926.

The electrification of the company's Staten Island Railway lines was completed. The equipment, consisting of 90 electric motor cars and 10 trailer cars, cost \$3,260,000.

Increasing Use of Motortrucks by Mexican Railroads.

Laredo, Texas, July 15—[Special.]—To forestall any private competition in the way of motortruck transportation, the National Railways of Mexico will establish its own system of covering short hauls by this method. It has just received its first shipment of 25 motortrucks from the United States, which it will place in service between points in the territory immediately adjacent to Mexico City, where there is a density of industries. The operation of these trucks is more or less an experiment, and if they come up to expectations many more will be purchased and placed in service in various other parts of the country. Motortrucks are coming more and more into use in the more remote mining regions for hauling ore to the smelters and to railroads.

The construction of trunk highways between Mexico City and Nuevo Laredo and between the capital and Vera Cruz has stimulated the building of a number of lateral roads. The cost of these is borne mostly by the communities they are intended to serve, but they offer an opportunity for the economical operation of motortrucks and are valuable feeders for both railroads and trunk highways. The average Mexican Indian is an adept when it comes to acquiring a quick understanding of the mechanical handling of a motortruck. In southern Texas most motortruck drivers are Mexicans, and they are used exclusively in Mexico in this work. It is explained that they seem to have a natural bent for mechanics and are first-class shop men.

Fewer Locomotives in Need of Repairs.

The railroads of the country had fewer locomotives in need of repair on July 1 this year than at any time since the compilation of these records began, in 1920, according to reports filed by the carriers with the Car Service Division of the American Railway Association.

The total number of locomotives in need of repair on July 1 was 9228, or 14.7 per cent of the number on line. This was a reduction of 38 locomotives under the best previous record, established on June 1, 1926, at which time there were 9266, or 14.7 per cent. Locomotives in need of repair on July 1 also showed a reduction of 541 compared with the number on June 15, at which time there were 9769, or 15.6 per cent. It also was a decrease of 1689 locomotives compared with July 1 last year. Of the total number on July 1 this year 4964, or 7.9 per cent, were in need of classified repairs, a decrease of 427, compared with June 15, while 4284, or 6.8 per cent, were in need of running repairs, a decrease of 114 compared with the same previous period.

Class 1 railroads on July 1 had 5909 serviceable locomotives in storage, a decrease of 69 compared with the number on June 15.

Some Facts About Freight.

The Public Relations Department of the Chesapeake and Ohio Railway at Richmond, Va., has issued two interesting folders called "See and Know Facts," one of them telling about the great volume of freight handled over the system last year and the other showing the great increase in freight-car mileage as compared with the previous year. Many other enlightening bits of information are also presented.

TEXTILE

Plans \$1,250,000 Mill at Morrilton, Ark.

Regarding plans for the establishment of a new cotton mill at Morrilton, Ark., Tom Davis, secretary of the Chamber of Commerce of that city, wires the MANUFACTURERS RECORD that a proposition from Morris & Co., Inc., of Trenton, N. J., has been accepted by the chamber pending an investigation. It is the purpose of the company to move a 10,000-spindle mill from Groverville, N. J., to Morrilton, people of the latter city to erect a mill building for lease to the company and to subscribe to \$150,000 of preferred stock in the enterprise. It is understood that the proposed mill will represent an investment of \$1,250,000.

Alabama Mills Sold to New York Interests.

Prattville, Ala.—According to a recent announcement, the Autauga Cotton Mills, located at Prattville, and the Montala Manufacturing Company of Montgomery have been sold to Neuss, Hesslein & Co., Inc., of New York, the former being sold outright, while the purchasers acquired a controlling interest in the latter. The sale is said to have been made by A. E. Ledyard, who is president of both mill companies.

The Autauga mill is equipped with 11,500 ring spindles, 58 broad and 252 narrow looms for the production of beach cloths, coverts and colored specialties, and the Montala mill with 11,552 ring spindles, 200 40-inch and 90 36-inch looms for the production of sheetings and drills.

The Proposed Cotton-Textile Institute.

Danville, Va.—In reply to a request of the National Association of Cotton Manufacturers, Boston, Mass., which is seeking the opinion of Southern interests regarding the proposed Cotton-Textile Institute, H. R. Fitzgerald, president of the Riverside and Dan River Cotton Mills of this city, states that a great weakness of the cotton-textile industry is its lack of organization.

"The present trying situation," says Mr. Fitzgerald, "is the natural outcome of the industry's rapid development, and this growth demands new methods, more commensurate with the present size of the industry." Mr. Fitzgerald expresses great faith in the institute plan and believes that if a start is made on the right basis it will be the beginning of a structure that will ultimately take care of the cotton industry.

In a statement recently issued through the National Association of Cotton Manufacturers, former United States Senator Henry F. Lippitt of Providence, R. I., chairman of the committee of ten which is making plans for the creation of the proposed institute, says that the aim of cotton manufacturers in their present movement for greater co-operation in the industry is a "reasonable and lawful stabilization in production and prices that will be beneficial both to the consumer and the producer."

Additional Equipment for Monticello Mills.

The Monticello Cotton Mills of Monticello, Ark., F. B. Cardner, manager, advises that additional preparatory and spinning equipment for the plant is being supplied by the Saco-Lowell Shops of Boston, Mass. Looms have been purchased from the Draper Corporation of Hopedale, Mass., and humidifiers from the American Moistening Company of Boston.

Present equipment of the Monticello mill includes 8000 ring spindles, 57 broad and 92 narrow looms for the production of flat and double filling duck.

GOOD ROADS AND STREETS

Florida County Sells \$1,850,000 of Bonds.

Punta Gorda, Fla.—A bond issue of \$1,850,000 for the construction of highways has been sold by Charlotte county to Marx & Co. of Birmingham, Ala., at par and accrued interest. Plans for road construction call for hard-surfaced highways throughout the country, a contract having been awarded to the Broadbent Construction Company at \$1,711,000.

Fort Worth Paving Contracts, \$225,000.

Fort Worth, Texas.—Contracts for paving work on 16 streets in this city have been awarded by the City Council at an aggregate cost of more than \$225,000. The Standard Paving Company of Tulsa, Okla., received contract at \$148,626 for work on 13 streets, while the Fuller Construction Company, Fort Worth, was awarded work on three streets at a total cost of \$76,913. The Standard Company bid on asphaltic concrete and the Fuller Company on sheet asphalt.

Arkansas Roads and Bridges to Cost \$375,000.

Little Rock, Ark.—Low bids recently submitted to the Arkansas State Highway Commission for the construction of seven road and four bridge projects aggregate more than \$375,000. Road work will cover a total of 52 miles, including four projects of grade and drainage construction, embracing a total of 40 miles and to cost \$195,463, and three projects of gravel construction to cover 12 miles and cost \$82,033. The four bridges will cost \$97,975.

St. Louis Paving to Cost \$173,000.

St. Louis, Mo.—Bids tabulated by the Public Service Commission of this city for a number of street-paving projects indicate that the lowest estimates on the work will total more than \$173,000. These figures are below the city's estimate, it is said. The most important project covers work on 9th street from Hempstead avenue to Branch street, on which the Trinidad Asphalt Manufacturing Company of this city submitted the low bid at \$91,655. The paving will be of asphalt.

Proposals Asked on West Virginia Road.

Morgantown, W. Va.—Bids will be received jointly by the State Road Commission, Charleston, and the County Court of Monongalia County at the courthouse in this city until August 9 for grading and drainage construction on 3.7 miles of the Morgantown-Mt. Morris road in Case district. Plans, specifications and estimate of quantities may be obtained from the division engineer of the State Road Commission at Morgantown, from the office of the State Road Commission at Charleston or from the office of the county road engineer at Morgantown.

Four Projects in Alabama.

Montgomery, Ala.—Bids will be received until July 28 by the Alabama State Highway Department for four projects, three of which will embrace a total of more than 38 miles of road construction and one for paving of two streets in Russellville. One project calls for the construction of 10 miles of gravel road in Wilcox county between Camden and Rosebud, one for 10.508 miles on the road between Clayton and Union Springs in Barbour county and another for 18 miles between Monroeville and Belleville in Monroe and Conecuh counties. There will be a number of bridges in connection with the work.

Mississippi Allots \$1,300,000 for Roads.

Jackson, Miss.—A total of approximately \$1,300,000 has been allotted by the Mississippi Highway Commission for roads and bridges in various counties of the state. Of this total Hinds county will receive \$200,000 to carry on a program of road work, while Jackson and Harrison counties will receive a similar sum for building a bridge over Biloxi Bay, with the understanding that the two counties will supply the remaining funds necessary to complete the bridge. An allotment of \$150,000 has been made to Lafayette county to complete projects already begun, and sums ranging from \$10,000 to \$70,000 for work in other counties.

24 Miles of Road for Maverick County, Texas.

Eagle Pass, Texas.—Bids will be received until August 12 by the Maverick County Commissioners' Court for the construction of two state road projects aggregating 24 miles. One project covers 11.96 miles of gravel surfacing on highway No. 85 from a point 12 miles east of Eagle Pass to the Dimmitt county line and the other 12.09 miles of the same highway, extending east from Eagle Pass. Plans and specifications may be obtained from the office of C. E. Wright, county engineer, Eagle Pass, and from the office of the State Highway Department, Austin.

Wants to Buy Road-Building Machinery.

James L. Glass, president of the American Products Corporation of Cuba, Havana, Cuba, writes the MANUFACTURERS RECORD that his firm wishes to purchase road-building equipment of all kinds from manufacturers in this country. He says: "We are in the market for road-building machinery, contracts being let by the Cuban Government for over 1000 miles of macadamized road. Contracts will be given only to Cuban concerns. We are in the front rank and desire to buy all our equipment in the United States."

Florida Town Votes \$220,000.

Indian Rocks, Fla.—Bonds in the amount of \$220,000, of which \$120,000 will be used for the construction of roads at Indian Rocks Beach and \$100,000 for bridges, have been voted here. A contract has been awarded by the town, of which George B. Merrell is clerk, to Baird & Schriber, Lakeland, Fla., for the construction of about four miles of 16-foot road, to consist of a rock base with sheet asphalt or penetration, and about one-half mile of concrete road with retaining wall.

111 Miles to Cost \$1,425,000.

Jefferson City, Mo.—Contracts for road construction to cover a total of 111 miles have been awarded by the Missouri Highway Commission at an aggregate of approximately \$1,425,000. This total includes the contract price for construction, plus \$277,719 for materials to be furnished by the state. The work will include about 51 miles of grading, 50 miles of gravel surfacing and 10 miles of concrete paving.

Alabama Road Contracts Total \$900,000.

Montgomery, Ala.—Road and bridge contracts have been awarded by the Alabama State Highway Commission to an aggregate of nearly \$900,000. Road work will cover a total of more than 100 miles, to cost \$851,870, while the cost of bridges will be upward of \$130,000.

LUMBER AND BUILDING MATERIALS

The Week in the Lumber Industry.

Washington, July 15.—The National Lumber Manufacturers Association received telegraphic reports today of the status of the lumber industry for the week ended July 10 from 381 of the larger softwood and 142 of the chief hardwood mills of the country. The 365 comparably reporting softwood mills show apparent decreases in production, shipments and new business when compared with reports from 355 mills for the previous week. The Fourth of July holiday and the suspension of many mills for repairs is no doubt reflected in the above decreases. In comparison with reports for the same period last year when four fewer mills reported, a slight increase in production and nominal decreases in shipments and new business were noted.

The unfilled orders of 228 Southern Pine and West Coast mills at the end of last week amounted to 671,786,424 feet, as against 659,459,312 feet for 225 mills the previous week. The 123 identical Southern Pine mills in the group showed unfilled orders of 250,311,690 feet last week, as against 249,394,950 feet for the week before. For the 105 West Coast mills the unfilled orders were 421,474,734 feet, as against 410,064,362 feet for 102 mills a week earlier.

Altogether the 365 comparably reporting softwood mills had shipments 97 per cent and orders 104 per cent of actual production. For the Southern Pine mills these percentages were, respectively, 95 and 96, and for the West Coast mills 102 and 105.

Of the reporting mills the 333, with an established normal production for the week of 228,024,252 feet, gave actual production 78 per cent, shipments 76 per cent and orders 83 per cent thereof.

The following table compares the national softwood lumber movement as reflected by the reporting mills of eight regional associations for the three weeks indicated.

Mills	Past week	Corresponding week		Preceding week 1925 (revised)
		1925	1926	
Mills	365	361	355	
Production	205,088,541	198,747,514	247,427,336	
Shipments	198,717,930	215,816,740	254,626,905	
Orders	212,638,796	214,111,575	249,923,386	

The following revised figures compare the softwood lumber movement of the same eight regional associations for the first 27 weeks of 1926 with the same period of 1925:

	Production	Shipments	Orders
1926	7,116,668,320	7,260,053,929	7,239,266,447
1925	6,820,648,171	6,871,348,215	6,658,659,035

The Southern Cypress Manufacturers Association of New Orleans for the week ended July 7 reported from 16 mills a production of 5,006,605 feet, shipments 3,160,000 and orders 3,620,000. In comparison with reports for the previous week, when one less mill reported, this association showed marked decreases in production and shipments and a good gain in new business.

The Southern Pine Association reports from New Orleans that for 123 mills reporting shipments were 5.14 per cent below production and orders 3.61 per cent below production and 1.62 per cent above shipments. New business taken during the week amounted to 57,567,105 feet, shipments 56,650,365 feet and production 59,721,683 feet. The normal production of these mills is 76,636,492 feet. Of the 115 mills reporting running time 20 operated full time. Three mills were shut down and the rest operated from one to five and one-half days.

The North Carolina Pine Association of Norfolk, Va., with two more mills reporting, shows marked increases in all three factors.

The Hardwood Manufacturers Institute of Memphis, Tenn., reported from 121 units production as 17,544,211 feet, ship-

ments 15,773,574 and orders 18,057,065. The normal production of these units is 21,142,000 feet.

For the past 27 weeks all hardwood mills reporting to the National Lumber Manufacturers Association gave production 785,985,837 feet, shipments 737,076,979 and orders 759,925,074.

Veneer Plant for Pensacola.

Pensacola, Fla.—To be operated as a detached unit, the Weis-Patterson Lumber Company of this city plans to build a veneer plant in connection with its big cypress-lumber mill. It is planned to utilize tupelo gum for the operation of the plant and specially designed machinery will be installed. The company's present plant covers more than 50 acres and has an annual production of 20,000,000 feet, while its timber supply, said to aggregate more than 300,000,000 feet, is located on the Choctawhatchee and Escambia cypress lands. The veneer plant is expected to be ready for operation by October 1, employing 40 men.

Congressional Action on \$7,610,000 Intracoastal Canal.

Summarizing legislation at the last session of Congress looking toward the construction of the Intracoastal Canal from the Mississippi River at or near New Orleans, La., to Corpus Christi, Texas, Roy Miller of Corpus Christi, active vice-president of the Intracoastal Canal Association of Louisiana and Texas, in a report to subscribers and members of the association directs attention to the approval of a bill embodying this project by the Rivers and Harbors Committee of the House; the passage of this bill by the House, with a total authorization of \$7,610,000 for the proposed canal; approval of the bill by the Commerce Committee of the Senate and its favorable report to the Senate calendar, and consent of the Senate to take up the bill on December 14 and make it the unfinished business of the Senate until a final vote is taken.

The approval of the bill, as it relates to the Intracoastal Canal, includes the Harvey route from New Orleans to Morgan City, the estimated cost of which is \$4,610,000, and the section from Galveston to Corpus Christi, which is estimated to cost \$3,000,000. In the latter case the committee approved a recommendation of the board of engineers for a land-locked canal from Galveston to Gulf in Matagorda county and the route thence to Corpus Christi as recommended by Gen. Lansing H. Beach, former Chief of Engineers. This change in the plan of construction will increase the cost of the entire project by approximately \$750,000.

Authorization has also been made for a survey of an extension of the canal from Corpus Christi to Rio Grande and for an allotment of \$2,000,000 by the Chief of Engineers to begin construction work upon that portion of the canal authorized in the Rivers and Harbors Act approved March 3, 1925; namely, from the Mississippi River via Plaquemine Locks and Morgan City, La., to Galveston Bay, Texas. The sum of \$1,250,000 will be available for construction in Louisiana and \$750,000 on the section from Port Arthur to Galveston Bay in Texas.

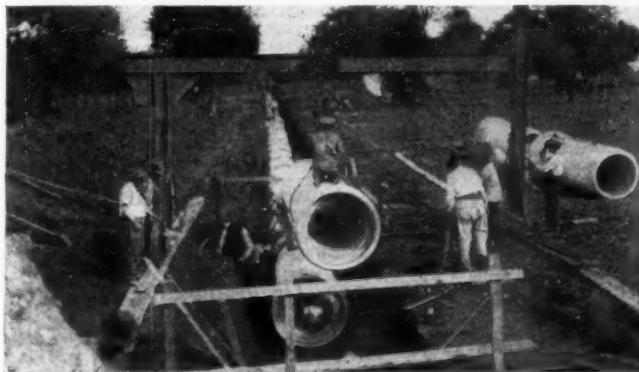
Griffin, Ga.—Application for a charter for the Griffin Knitting Mills has been filed with the Superior Court of Spalding county, the petitioners including J. W. Gresham, J. A. Evans, L. Baxter and Jack S. Gresham. The company will have a capital stock of \$150,000, with privilege of increasing to \$500,000.

MECHANICAL

New Design Concrete Pressure Pipe.

Final leakage tests have been completed and final estimates approved and paid by the city of Dallas, Texas, for 14,250 feet of 36-inch reinforced concrete pressure pipe of a new design, says W. H. Hardy, Jr., vice-president, Fountain-Hardy Pipe Company, Fort Worth, Texas.

This pipe, which is patented and is known as "The Trammell System of Copper Bell Concrete Pressure Pipe," is the result of ten or more years' development and experimental



LAYING CONCRETE PRESSURE PIPE.

work by J. D. Trammell, a consulting and hydraulic engineer of Fort Worth, Texas. It is of the ordinary bell and spigot type, the novelty in its design lying in the feature of a flanged, rolled-copper cylinder molded integral with the bell. A method of exact precision is employed in placing the copper cylinder and in holding it in place so that its surface may be parallel to and truly concentric with the bore of the pipe.

The joint material, molded into the deep groove around the spigot, becomes integral therewith, while its outer diameter, molded against the highly polished copper cylinder, takes on a smooth, even surface, exactly matching that of the copper. The smooth surface of the joint material slips easily on the highly polished copper without leakage, undue stresses or damage, should expansion, contraction, deflection, subsidence, vibration or other movements occur.

A portable plant was set up in Dallas for the manufacture of this pipe having a capacity of 14 pipe daily—or 168 linear feet, as the pipe were cast in 12-foot sections, the wall thickness being $4\frac{1}{2}$ inches. A 1- $\frac{1}{2}$ -2 mix with 5 per cent of hydrated lime was used, with crushed limestone aggregate passing a $\frac{3}{4}$ -inch screen. The concrete was mixed in a battery of 4-11 cubic foot capacity mixers of the "wonder type" and chuted into two concrete buckets of 35 cubic foot capacity each. These buckets were, in turn, picked up by the traveling gantry and transported to the pipe sections to be poured, one on each side of the gantry track.

A single reinforcing cage was used with $\frac{1}{2}$ -inch round deformed bars for the longitudinal reinforcement, and flat, deformed bars—electrically welded into circles—for the circumferential reinforcing. The head for which the pipe was reinforced was graded from a minimum of 25 feet to a maximum of 200 feet.

The pipes were joined together with cement joints, except in a few wet places, where, to prevent excessive pumping, lead joints were used. Both were found equally satisfactory. Neat cement, of about the consistency of putty, was caulked against dry jute, care being used in order to secure

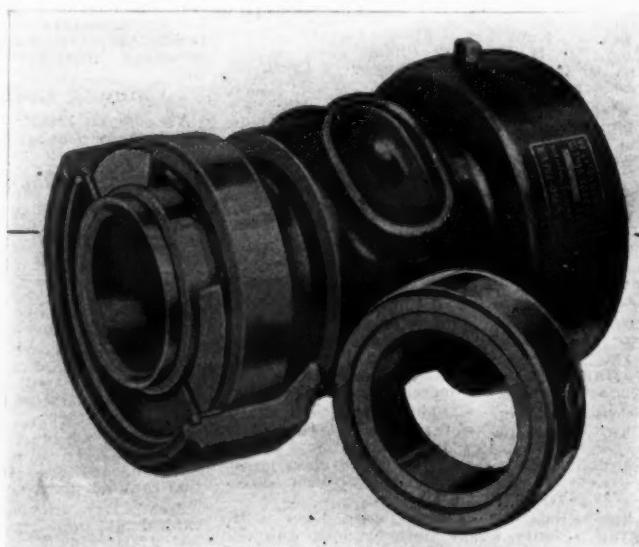
the final caulking just prior to the initial set of the cement. The pipes were laid with an "A" frame with an ease and speed equal to cast-iron pipe. The line is one of two employed in parallel in carrying sewage, under pressure from the pumping plant to the disposal plant.

This concrete pipe was manufactured and laid by the Fountain-Hardy Pipe Co., under the direction and supervision of the patentee, Mr. Trammell.

Ball-Bearing Hanger Box.

The accompanying picture shows the features of the Wood-Fafnir ball-bearing hanger box for shafting, a new device which has been adopted by the T. B. Wood Sons Company of Chambersburg, Pa., as part of its own line of transmission equipment. The company has been doing research and experimental work in the bearing field for several years in order to obtain a fitting companion for its line of shaft hangers. Fafnir ball bearings have been used in "U. G." hanger boxes, Wood's loose pulleys and friction clutches for many years, but they are now adopted as standard part of that entire line of products. The housings are made in several styles with bosses designed to suit the different types of hanger frames, illustrated both in the company's catalogue and in all other standard makes. Therefore, plain or babbitted bearings can be replaced without removing present hanger frames.

This ball-bearing hanger box needs no adjustment when mounting on the shaft. It is simply necessary to slide the box and the two locking collars to place on the shaft and



SHOWING CONSTRUCTION OF HANGER BOX.

into the frame, then draw up the frame bolts and tighten the collars. The hanger box is dustproof and leakproof. Lubricant is applied through two tapped holes, which are fitted with standard pipe plugs. Lubrication is necessary only twice a year.

It is the purpose of the company to make not only ball-bearing hanger boxes, but also ball-bearing post hangers, pillow blocks, loose pulleys, friction clutches—in fact, a complete line of ball-bearing-equipped transmission machinery.

The State Board of Education, Austin, Texas, has recently purchased 22 bond issues from school districts aggregating \$196,000, the largest being an issue of \$45,000 from district No. 1 in Zavalla county.

CONSTRUCTION DEPARTMENT

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.

An asterisk (*) following an item indicates that the enterprise has been reported in a preceding issue.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers, and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$30.00 a year.

Bridges, Culverts and Viaducts

Proposed Construction

Ala., Selma—State Highway Comm., Montgomery, receives bids Aug. 18 for bridge over Valley Creek at foot of Dallas St.

Fla., Clearwater—City Comm. plans completing causeway, 40-ft. pavement, sidewalks, etc.; cost \$410,000. See Financial News—Bond Issues Proposed.*

Fla., Fort Lauderdale—City Comm. plans completing East Ave. and Colee Ave. Bridges and erecting several bridges, cost \$300,000; B. J. Horne, Mgr.

Fla., Miami—See Roads, Streets, Paving.

Fla., Tampa—See Roads, Streets, Paving.

Kentucky—State Highway Comm. will build 5 bridges. See Roads, Streets, Paving.

Miss., Belzoni—Humphreys County Board of Supervisors plans building 2 bridges: Across Yazoo River, near Swiftion, across Wasp Lake at Devolente.*

Miss., Decatur—State Highway Dept., Jackson, receives bids soon for overhead bridge, underpass and concrete bridge over Chunky and Oktibbee River; J. M. McBeath, Highway Comm. of Fifth Dist.

Tenn., Knoxville—Knox County Road Comm., Dr. H. E. Goetz, Chmn., receives bids Aug. 10 for bridges over Roseberry Creek on Mascot road.

Tenn., Knoxville—Knox County Highway Comm., Dr. H. E. Goetz, Chmn., receives bids Aug. 10 for concrete highway bridge over Beaver Creek, on Solway road; W. Buffat, County Engr.

Tenn., Nashville—City, Board of Public Works plans repairing bridge on West Lawn Drive, near Murphy road.

Texas—State Highway Comm. will build underpass and bridge. See Roads, Streets, Paving.

Tex., Abilene—Taylor County will build and repair 13 bridges. See Roads, Streets, Paving.

Tex., Galveston—Galveston County, John M. Murch, County Auditor, receives bids July 27 for reinforced concrete bridge on Main Island road, 12-ft. span; plans on file.

Tex., Houston—City, O. F. Holcombe, Mayor, received low bid from A. N. Fitzgerald, 615 Peden St., at \$24,271 for north side approach to Sixty-ninth St. Bridge; J. C. McVea, City Engr.*

Tex., Houston—Harris County, Chester H. Bryan, County Judge, receives bids July 26 for 83-ft. concrete pile trestle across Clear Creek, Houston-Alvin road, 20-ft. roadway, 13,000 lbs. reinforcing steel, estimated cost \$8400; Howe & Wise, Engrs., 816 First National Bank Bldg.*

Tex., Palestine—Anderson County, W. C. Quick, County Judge, let contract to Joe G. Ballinger, San Benito, at \$26,548 for dirt work on approaches to concrete bridge over Trinity River west of Palestine on Highway No. 43.*

Virginia—State Highway Dept. received low bids for 2 bridges. See Roads, Streets, Paving.

W. Va., Clarksburg—Harrison County will build 2 bridges. See Roads, Streets, Paving.

Contracts Awarded.

Alabama—State Highway Comm. let contract for several bridges. See Roads, Streets, Paving.

Ark., Paragould—State Highway Comm., Little Rock, let contract to J. F. Mullins, 1818 Chestnut St., Pine Bluff, \$40,278, for Arkansas half of interstate bridge across St. Francis River, Greene County.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Fla., Deerfield—Luton Bridge Co., York Pa., and Palatka, Fla., has contract at \$49,670 for 200-ft. bascule span, steel and concrete bridge over Hillsborough River at Brookard and Palm Beach County line, at Deerfield; replace present one-way bridge.

Fla., Orlando—City, J. A. Stinson, Clk., let contract to Concrete Steel Bridge Co., Clarksburg, W. Va., at \$10,000 for concrete bridge over Fern Creek on Washington St.*

Miss., Greenwood—LeFlore County Board of Supr's, let contract to Nashville Bridge Co., Shelby Ave., Nashville, Tenn., at \$45,140, for Tallahatchie River bridge at Money.*

Mo., Kansas City—E. W. Rand & Son, 142 N. Grand St., have contract for steel and concrete bridge over Fire Prairie Creek on Leavenworth-Oak road.

Okl., Chandler—City, R. P. Rooth, Mgr., let contract to E. E. Mastin, Chandler, for viaduct; Benham Engineering Co., Consult. Engrs., 612 Gumbel Bldg., Kansas City, Mo.*

Tenn., Elizabethton—City, E. R. Lingerfelt, Mgr., let contract to Luton Bridge Co., Mercantile Bldg., Knoxville, at \$45,00, for 281-ft. reinforced concrete bridge over Doe River.*

W. Va., Huntington—City Commr's, let contract to Turner & Brown, Catlettsburg, Ky., for concrete substructure, and to Vincennes Bridge Co., Vincennes, Ind., for steel superstructure; total cost \$110,000.*

Canning and Packing Plants

Ala., Bayou Labatre—Alabama Canning Co., operated by Dunbar-Dukate & Co. of Biloxi, Miss., acquired Co-operative Canning Co.

Fla., Lake Wales—Florida Highland Citrus Corp. will erect canning plant at Mammoth Groves; steel, 190x60 ft., 2 stories, concrete floor and roof; cost of building \$30,000, of equipment \$20,000; Truscon Steel Co., Contr. Youngstown, Ohio.

Fla., Palmetto—Four Friends Packing Co., R. R. Beville, Pres., let contract to T. G. Earle for vegetable packing plant; install modern equipment.

Fla., Wauchula—L. Maxcy, Inc., Frostproof, reported acquired Florida Citrus Exchange Packing house; will improve and install additional machinery.

Kentucky—Kentucky Canning Co., Paris, is erecting 5 canneries throughout the state; let contract to A. K. Robins & Co., Lombard and Concord Sts., Baltimore, Md., for \$20,000 canning plant equipment.

Tex., Bay City—Bay City Canning Co., capital \$12,000, incorporated; Henry Hugley, A. H. Simon.

Clayworking Plants

Mo., New Bloomfield—Harhison-Walker Refractories Co., Pittsburgh, Pa., reported acquired 420 acres clay lands in Callaway County.

Coal Mines and Coke Ovens

Mo., Bevler—Bevler Coal Co. incorporated; Wm. A. Rowland, Paul D. Hess, Macon, Mo.

W. Va., Clarksburg—The Willow Coal Co., capital \$25,000, incorporated; Thomas P. Keenan, Benj. R. Britt, Goff Bldg.

W. Va., Welch—Brown's Creek Coal Co. incorporated; Sam Poland, Moses Hyman.

Cotton Compress and Gins

Ark., McNeil—McNeil Gin Co., capital \$10,000, incorporated; P. N. Buston, Dr. T. E. Souter; establish four 60 saw gin; install modern machinery.

Okl., Caddo—Mebane Gin Co., capital \$20,000, incorporated; F. D. Phillips, W. H. Sands, Durant.

Tex., Linden—Wells Chapel Gin Co., capital \$12,000, incorporated; J. R. Cloniger, S. M. Wells.

Tex., Lubbock—J. T. South of Wilmer acquired McDonald gin; will remodel and install new equipment.

Tex., Stamford—Planters Gin Co., capital \$25,000, incorporated; C. M. Francis, R. B. Bule.

Tex., Wellington—Kimbell-Watkins Gin Co., capital \$25,000, incorporated; H. T. Kimbell, M. P. Watkins.

Cottonseed-Oil Mills

Miss., Meridian—Missala Cotton Oil Co. incorporated; A. D. Simpson and S. M. Harman; establish cottonseed oil mill.

Drainage, Dredging and Irrigation

Ark., Paragould—Directors of St. Francis Drainage Dist. of Clay and Greene Counties let contracts to Mayo & Wills of Paragould; E. W. Clark of St. Louis, Mo., and T. J. Clark of Blytheville for construction of ditches in Greene County, subsidiary Drainage Dist. No. 20; work consists of about 55 mi. open ditches, approximately 2,000,000 cu. yds.*

Fla., Gainesville—Alachua and Marion Counties contemplate drainage project to reclaim 250,000 acres; estimated cost \$3,000,000; drainage to start in area south of Lake Santa Fe and Alto, run through Lake Newman and Prairie Creek to Paynes Prairie, course carried through River Styx, which empties into Orange Lake and drain into Oklawaha river. Address County Commr's.

Fla., Tampa—Supervising Board of the Interbay Drainage Dist., James G. Yeats, Pres., 81 S. Rome St., soon begin work for drainage of 13,000 acres land in peninsula district, including all sections south of Memorial highway and west of Howard Ave.; work includes 18 miles pipe, 11 miles 6-ft. concrete box fills; has about \$2,338,000 available; reported let contract to Nixon & Phillips of Lineville, Ala., at \$1,750,000; McElroy Engineering Co., Engrs., Tampa.*

Fla., West Palm Beach—Board Commr's, Lake Worth Inlet Dist., Wilson-Wagg Bldg., let contract to Merritt, Chapman & Scott, 17 Battery Pl., New York City, placing 65,000 tons rock and extension of north and south jetties.*

Ky., Hickman—City let contract to Sternberg Construction Co. to construct loop in West Hickman levee; will handle about 25,000 to 30,000 yds. dirt. Address City Clerk.

La., Lake Charles—Drainage Dist. No. 1 of Calcasieu and Jefferson Davis Parishes, care of F. C. Wait, Iowa, La., will construct 30 mi. canals from 6 to 30 ft. bottom; dredge or drag line; reclaiming about 22,000 acres for general farming, estimated cost \$110,000; T. H. Mandell, Engr., Frank Bldg., Lake Charles.*

La., Oberlin—Gravity Drainage Dist. No. 3, Allen Parish, propose reclaiming 44,000 acres land in Allen Parish; T. H. Mandell, Engr., Frank Bldg., Lake Charles.

La., St. Joseph—Lake Bruin Drainage Dist. Commr's receive bids July 29 to excavate canal following Routh ditch from Lake Bruin to Clarks Bayou, 2½ mi., approximate contents 70,000 cu. yds.; also digging ditch along levee from head of Lake Bruin, about 5 mi., approximate contents 30,000 cu. yds.; plans with Board of State Engrs., 213 New Orleans Court Bldg., New Orleans.

Tex., Beaumont—Jefferson Land & Irrigation Co., incorporated; Charles Pipkin, Oliver Todd.

Tex., San Angelo—Tom Green County Commr's, having preliminary surveys made for irrigation project; propose to dam Concho

CONSTRUCTION DEPARTMENT

river: Nagle, Witt, Rollins & Gilchrist, Engrs., 1305 Santa Fe Bldg., Dallas.

Va., Norfolk—A. C. Shand, Ch. Engr., Pennsylvania Railroad System, Philadelphia, Pa., advises: Will dredge for new channel and construct stone jetties at Little Creek near Norfolk; expect to ask bids on work within next week and have work placed under contract promptly.

Electric Light and Power

Large sums are being expended for electric light and power work in connection with Land Development operations. Details will be found under that classification.

Ala., Florence—U. S. Engineers Office reported to open bids July 24 for transformer for Wilson Dam, Muscle Shoals.

Ala., Selma—City, T. J. Rowell, Mayor, plans extension to white way system.

Fla., Boca Raton—City, G. S. Atkins, Clk., let contract to Florida Power & Light Co., 47 W. Flagler St., Miami, for erection of lighting standards on East and West Dixie Highways and on Palmetto Park Rd.

Fla., Daytona Beach—Retail Merchants Committee of Daytona Beach Chamber of Commerce interested in white way system for Beach St.; Walter A. Richards, City Mgr.

Fla., Daytona Beach—Florida Power & Light Co., 47 W. Flagler St., Miami, reported to expend \$150,000 for improvements, including 13,000 volt secondary transmission lines along Halifax Canal between Port Orange and Ormond, together with substation; work by Phoenix Construction Co.

Fla., Deerfield—City soon let contract for pumping plant: Riddle Engineering Co., Engr., West Palm Beach.

Ga., Albany—South Georgia Power Co., H. W. Patterson, Mgr., advises that company is to build 200 miles of 44,000 volt and 11,000 volt transmission lines and The Columbus Electric & Power Co. will also build a 110,000 volt line from Columbus to Americus, connecting system of Columbus Electric & Power Co. and South Georgia Power Co. together; work in charge of Division of Construction and Engineering of Stone & Webster, Inc., 147 Milk St., Boston, Mass.; G. F. Harvey, Supt. of Construction.*

Ga., Eatonton—Georgia Railway & Power Co., Atlanta, reported has electric light franchise.

Ky., Milburn—Lambe Utilities Co., Bardwell, considering extension of power lines from Arlington to here.

Ky., Murray—Plants at this city and McKenzie, Tenn., recently acquired by Kentucky-Tennessee Light & Power Co., Bowling Green, will be connected with Mayfield, Ky., and Martin, Tenn., with 33,000-volt high line.

Miss., Macon—Inland Utilities Co., Kansas City, Mo., reported acquired municipal lighting system.

Miss., Ocean Springs—R. R. Guice, Gulfport, reported acquired Ocean Springs Electric Light & Ice Co.'s plant.

Mo., Canton—See Roads, Streets, Paving.

Mo., Kirkwood—See Water Works.

Okla., Altus—Southwestern Light and Power Co., Earl R. Ernsberger, Pres., 40 Exchange Pl., New York, reported to acquire light and power property and to complete Lugert water project.

Okla., Poteau—Albert C. Moore, Engr., 221 W. Third St., Joplin, Mo., is preparing plans for electric power plant; may vote on \$60,000 bonds.

S. C., Beaufort—Edisto Public Service Co., Denmark, will extend lighting system, including construction of line to Burton.

S. C., Sumter—N. M. Seabreeze, Packard Bldg., Philadelphia, Pa., reported acquired South Carolina Power & Light Co.

Tenn., Pikeville—Southern Cities Power Co., Provident Life Bldg., Chattanooga, reported granted 30 year franchise, construct transmission line.

Tenn., Mooresville—Southern Cities Power Co., Provident Life Bldg., Chattanooga, reported to extend power lines through Mooresville and Culleoka.

Tenn., Selmer—Southern Cities Power Co., Provident Life Bldg., Chattanooga, reported acquired gin and electric plant; has fran-

chise; will erect generating plant; extend transmission lines.*

Tex.—Kansas City Power Securities Co., holding company for Kansas City Power & Light Co., Kansas City, Mo., a subsidiary of United Power & Light Co., Abilene, Kansas, reported to construct electric power plant of 10,000 kw. capacity in Texas panhandle oil fields.

Tex., Amarillo—Southwestern Public Service Co. reported to extend power transmission lines from here to Pampa by way of Panhandle City and White Deer, also plans additional power plant.

Tex., Nacogdoches—City granted 50-year franchise to Texas Power & Light Co., Dallas.

Tex., Waxahachie—City Council considering bids from Texas Power & Light Co., Dallas, for construction of white way system on several streets.

Va., Bristol—City plans installing lighting system from State to Sycamore St. Address The Mayor.

Va., Gate City—American Gas & Electric Co., 30 Church St., New York, reported acquired entire holdings of Gate City Light & Power Co.

Va., Staunton—Virginia Public Service Co., Charlottesville, reported plans extending electric light and power lines in southeastern section of Augusta County, 14 miles long.

W. Va., Huntington—McComb Electric Co. will probably receive contract for monolithic lighting system on Fourth Ave.

Flour, Feed and Meal Mills

Ga., Juliette—Juliette Milling Co., S. R. Jacques, 415 Broadway, Macon, reported let contract to Spencer Construction Co. for rebuilding burned plant; fireproof, reinforced concrete; 4 stories; storage space for 70,000 bu. corn, cost \$100,000; Nordyke & Marmon, Indianapolis, Ind., Machinery Contrs.*

Mo., Clayton (Sta., St. Louis)—Allhoff Brothers, capital \$50,000, incorporated; F. A. Allhoff, 5914 Wells St.

Tenn., Memphis—Hernando Grain Co., 1520 Mississippi Ave., capital \$30,000, incorporated; L. D. Smith.

Tex., Hamilton—Ireland Grain & Elevator Co., incorporated; H. M. Wieser, A. M. Maloney, Jr.

Tex., Waco—Clement Grain Co. acquired plant of Central Texas Grain Co., 425 Peach St.

Foundry and Machine Plants

Md., Baltimore—Stoves, etc.—A. Weiskittle & Son Co., Harry C. Weiskittle, Pres., 12th and E. Lombard Sts., will soon begin erection 3-story addition for warehouse.*

Mo., Kansas City—Blue Valley Foundry Co., capital \$25,000, incorporated; C. T. Ludwig, 3715 Harrison St.

Mo., St. Louis—St. Louis Car Co., 8000 N. Broadway, reported let contract to Raterman Building & Contracting Co., 1943 St. Louis Ave., for 1-story car building plant, 130x1000-ft. and 60x100-ft., including 250-ft. crane runway, steel yard with 10 ton, 60-ft. crane, etc.; steel work furnished by Mississippi Valley Structural Steel Co., Arcade Bldg.*

Gas and Oil Enterprises

Ark., El Dorado—Lisbon Gasoline Co., Inc., Exchange Bank Bldg., increased capital, \$50,000 to \$100,000; enlarge casinghead gasoline plant, construct 20 mi. of 6, 2 and 4 in. pipe line to cost \$65,000, install new machinery; Forest E. Gilmore Co., New Wright Bldg., Tulsa, Okla.*

Fla., Bartow—See Fla., DeLand.

Fla., DeLand—A. H. Muller, Room 1530, 30 Broad St., New York City, and associates, who recently took over DeLand Gas Co., will make extensive improvements; probably expand \$300,000. W. H. Fritchman, Constructing Engr., 658 E. Eighteenth St., Brooklyn, New York, advises: "Mr. Muller, in connection with several associates, purchased the franchise rights from local parties several months ago and we are now securing bids from the material manufacturers; purifying boxes, water gas generators and expecting to rush construction of plant as soon as all financial arrangements have been consummated and manufacturers have submitted their final figures; have also secured franchises at Winter Haven and Bartow, and work on that plant will be pushed at same time; proposals will be received for this work

by W. H. Fritchman, acting as constructing engineer."*

Fla., Winter Haven—See Fla., DeLand.

Ga., Griffin—Griffin Gas, Ice and Cold Storage Co. will issue \$140,000 6% 20-year bonds; expend \$40,000 for improvements; Maj. Henry Smith, Res. Mgr.

La., Monroe—Mer Rouge Gas Co., incorporated; R. R. Beaman, Ouachita Bank Bldg.

La., New Orleans—Oreole Refining Corp., G. W. Prutsman, Carondelet Bldg., reported to erect \$150,000 lubricating plant.*

Miss., Laurel—Continental Refining & Chemical Co., capital \$50,000, incorporated; F. W. Kressman, W. S. Welch.

Mo., Kansas City—George E. Nicholson, Pres., Kansas City Gas Co., advises: "The Henry L. Doherty Co., 60 Wall St., New York, has under consideration the building of pipe line mentioned from Amarillo Gas Field to Kansas City. At the present time I do not believe they are doing more than make a general survey of the proposition."

Mo., St. Louis—Furnace Oil Corp., incorporated; F. E. Niedringhaus, 4950 Lindell Blvd.

Mo., St. Louis—L. C. Wilderman Lubricating Co., capital \$25,000, incorporated; L. C. Wilderman, 1929 N. Kingshighway.

Mo., Trenton—Trenton Home Oil Co. incorporated; J. J. Hatfield, W. B. Timmons.

N. C., Winston-Salem—North Carolina Public Service Co. acquired Winston-Salem Gas Co., T. R. Warren, Local Mgr.; will extend lines.

Okla., Billings—D. H. Reed, Enid, has natural gas franchise; construct pipe line.

Okla., Enid—Champlin Refining Co. reported expending \$750,000 for improvements to refinery; leased 9000 acres in Sherman County.

Okla., Oklahoma City—Electrol Refining Co., capital \$250,000, incorporated; J. L. McCabe, Wichita, Kansas; D. M. Carey, Oklahoma City.

Tenn., Jackson—Jackson Railway & Light Co. reported acquired Citizens Gas Light Co.

Tenn., Memphis—Valley Oil Co., 1214 S. Bellevue St., increased capital, \$100,000 to \$1,000,000; changed name to Young Brothers & Alexander, Inc.

Tenn., Nashville—Cumberland Oil Co., capital \$30,000, incorporated; David S. Lansden, Franklin Rd.

Texas—George R. Broadwell, Braniff Bldg., Oklahoma City, Okla., advises: "Gas pipe line and necessary distributing systems proposed from Amarillo gas fields to Slaton, including following towns and cities: Happy, Tulla, Kress, Plainview, Lockney, Floydada, Hale Center, Abernathy, Lubbock and Slaton; franchises granted in Tulla, Plainview, Lockney, Floydada, Lubbock and Slaton; construction will start about Sept. 1."

Tex., Amarillo—Nunn-McAuley Oil Co., capital \$100,000, incorporated; J. N. Riggs, G. J. Nunn.

Tex., Amarillo—Madalene Oil Co., capital \$150,000, incorporated; R. Bruner, W. E. Oliver.

Tex., Amarillo—Irish-American Royalty Co., capital \$200,000, incorporated; W. O'Brien, J. L. Sullivan.

Tex., Beaumont—Gladys Petroleum Co., capital \$10,000, incorporated; Charles Paggi, 1011 San Jacinto Life Bldg.

Tex., Dallas—Lone Star Gas Co., 1915 Wood St., reported to expend \$6,500,000 for extensions, including 180 mile connection with Wheeler County gas wells from Wichita Falls to Shamrock, cost \$2,750,000; 75 mile line built to Greenville, cost \$500,000; build distributing stations, cost \$2,000,000; 20 mile line to Ferris, cost \$200,000; distributing stations at Childress, Quanah, Vernon, Electra and Iowa Park, cost \$1,000,000.*

Tex., Dayton—Poor Oil Co. changed name to Dayton Production Co.; increased capital, \$15,000 to \$50,000.

Tex., Fort Worth—Payne Drilling Co., capital \$10,000, incorporated; M. L. Massingale, First National Bldg.

Tex., Livingston—Keen Oil Co. incorporated; E. T. Murphy, Robert Keen.

Tex., Odessa—Marland Pipe Line Co., Ponca City, Okla., reported to construct 40-mile pipe line, enlarge loading racks, erect steam-pumping station, enlarge tank farm at Kemper.

Tex., Panhandle—Gallaway Drilling Co., capital \$10,000, incorporated; R. C. Gallaway, L. S. Park.

Tex., San Antonio—Ammex Production Co., capital \$10,000, incorporated; W. G. French, Travis Bldg.

Tex., Terrell—W. G. Crumpler and asso-

In writing to parties mentioned in this department it will be advantage to all concerned if the Manufacturers Record is mentioned.

CONSTRUCTION DEPARTMENT

Manufacturers Record

clates reported acquired Terrell Oil and Refining Co.'s plant.

Tex., Tulia—McFarling Oil Co., capital \$75,000, incorporated; C. W. McFarling, W. B. Hale.

Tex., Wichita Falls—Hiway Oil & Gas Co., capital \$40,000, incorporated; J. B. Fletcher, 1714 Beverly Drive.

Tex., Wichita Falls—Plains Crude Oil Co., capital \$50,000, incorporated; W. L. Scott, 1803 Tenth St.

W. Va., Buckhannon—Ivy Gas Co. incorporated, capital \$60,000; E. E. Edgell, Buckhannon, L. G. Davis, 103 Michigan Ave., Charleston.

W. Va., Charleston—Columbia Gas & Electric Co. and Ohio Fuel Corp. reported merged with Philip G. Gossler, Pres.; new company has 4,860,000 acres of gas, oil and coal lands; 780,000 acres now being developed.

Ice and Cold-Storage Plants

Ala., Birmingham—See Miscellaneous Enterprises.

Miss., Heidelberg—City granted franchise to City State Investment Co.; establish ice plant.*

Mo., Springfield—Service Ice Co., capital \$120,000, incorporated; A. Frank Goebel, 2755 N. Twenty-second St.

S. C., Bishopville—E. H. Moses and L. H. Harvin, both Manning, acquired the Bishopville Ice Co.; will operate under name of Bishopville Ice & Fuel Co., Douglas Moses, Mgr., of Sumter.

Tenn., Harriman—Harriman Grain & Commission Co., B. C. Watkins, Pres., building cold storage plant, main building 40x35 ft., refrigerating plant 20x40 ft., operated by electricity, capacity about 2 or 3 carloads, to be completed about Sept. 1.

Tex., Houston—J. B. Joseph has permit for \$15,000 ice plant at 4102 Almeda; T. B. Hubbard, Contr., Bankers' Mortgage Bldg.

Tex., San Antonio—Southern Ice & Storage Co., capital \$10,000, incorporated; H. C. Loehr, 810 W. Summit St.

Va., Charlottesville—Elliott Ice Co., Inc., M. C. Elliott, Pres., increased capital, \$50,000 to \$300,000.

W. Va., Wheeling—The Wheeling Public Service Co. has permit for \$17,000 repairs and improvements to ice plant at Davis Alley and Patterson St.

Iron and Steel Plants

Tex., Fort Worth—Texas Steel Co., John H. Kirby, Pres., reported contemplates plant extension.

Land Development

Ala., Birmingham—City acquired 6-acre tract in Ensley Highlands near Hilltop Station; will develop for park; J. A. Dupuy, Pres., Park Board.

Ala., Birmingham—Jemison & Co., Inc., 221 N. 21st St., will develop 400 acres for country estates; install roadways, lights and water; expend \$250,000; Jno. J. Glander, Jr., Const. Engr., Jackson Bldg.*

Fla., Daytona Beach—City plans issuing \$50,000 bonds to complete waterfront park; Walter A. Richards, City Mgr.

Fla., Fort Myers—Construction reported now under way on 18-hole golf course of Palm City Golf and Country Club; H. B. Van Kleeck, Bldr.

Fla., Hialeah—City plans expending \$125,000 for construction of parks and playground. See Financial News—Bond Issues Proposed.

Fla., Kissimmee—Florida Gulf Coast Land Co. acquired 147 acre tract.

Fla., Miami—Construction reported started on municipal golf course at Opa-Locka; C. S. Russell, Ch. Engr. for Opa-Locka Co., Inc., G. Carl Adams, Pres., 132 E. Flagler St.; W. S. Flynn, Govt. Archt.

Fla., Palm Beach—Anthony Drexel Biddle, Jr., 511 Fifth Ave., New York, and associates will develop tract with 2½ miles of ocean frontage; Fugate Engineering Co., Engrs.*

Fla., Quincy—J. H. McGunkin, Inc., J. H. McGunkin, Quincy and Jacksonville, acquired 100,000 acres in Gadsden and Leon counties; will divide into 40 and 160 acre farms.

Ga., Atlanta—John W. Buettas acquired 71 acres on Paces Ferry Rd.; will probably develop.

Ga., Rome—S. P. Coalson acquired 300 acres; develop health resort.

Ky., Louisville—Southern States Realty Corp., capital \$15,000, incorporated; Leslie V. Abbott, 5 Keller Ct.

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capital \$25,000, incorporated; Jacob Schurman, Jacob Halpern.

Lumber Enterprises

Ark., Dumas—Stimson Veneer & Lumber Co., N. McLean St., Memphis, Tenn., reported acquired timber lands valued at \$1,000,000; contemplates moving mill from Mounds, La.; capacity about 50,000 ft. daily.

D. C., Washington—Blue Ridge Lumber & Building Co., Inc., capital \$200,000, chartered; John Williams, Washington; C. F. Boyer of Wilmington, Del.

Ga., Hapeville—Evans-Inman Lumber Co., capital \$200,000, incorporated; G. H. Evans, Pres., 43d St., Chattanooga, Tenn.; acquired 12-acre site for erection of plant, manufacture hardwood lumber of oak, walnut, gum, etc.; machinery purchased from Wheland Co. of Chattanooga.

Miss., Jackson—Pickle & Ramsey, Inc., Bel St., capital \$10,000, chartered; J. B. Pickle, Elmer Ramsey.

Okl., Flint—Delaware Hardwood Co., Wright Bldg., Tulsa, has acquired land and mill; will install new boiler and some wood-working machinery; also contemplate adding to mill and remodel; will cut own lumber.*

Tenn., Memphis—Coleman-Hackney Lumber Co., Bank of Commerce Bldg., capital \$50,000, incorporated; Lyle R. Curtiss.

Va., Petersburg—Brunswick Lumber Co., Inc., capital \$10,000, chartered; Chas. E. Plummer, National Bank Bldg.

Metal-Working Plants

Mo., Kansas City—Blake Sheet Metal Works, Incorporated, 4112 Penn St.; John Blake, 7225 Summit St.

Tex., Fort Worth—Waynock Sheet Metal Works, capital \$10,000, incorporated; C. N. Waynock, 812 N. Henderson St.

Mining

Fla., Fort Meade—American Agricultural Chemical Co., 2 Rector St., New York, reported will expend \$100,000 in opening new phosphate mine, washing plant and railroad extension from its main plant at Pierce.

Mo., Jefferson City—Circles Mining Co. Incorporated; W. L. Walls, John Roush.

Mo., Kansas City—National Rock Co., capital \$50,000, incorporated; E. A. Brinton, 3925 Genesee St.

Mo., Neosho—Eureka Zinc & Mining Co., capital \$150,000, incorporated; E. C. Hearrell, Harry Clark.

Tenn., Salisbury—E. T. Durden Sand Co., capital \$10,000, incorporated; E. T. Durden, R. T. Freeman.

Texas—The Border Research Corp., chartered under laws of Maryland, B. F. Bush, Pres., 5334 Waterman St., St. Louis, Mo.; Sidney P. Allen, Sec., Chicago, Ill.; establish operating offices in Houston with W. C. Hardcastle, 310 Fargo St., in charge, and general offices in New York city; will develop holdings in mining, sulphur, salt, gas, etc. Sidney P. Allen, Sec.-Treas., 42 Broadway, New York City, advises company owns about 1,457,000 acres of land in Mexico and 700,000 acres in Gulf Coast region of Louisiana; holds unde rlease 1,250,000 acres in Louisiana coastal region.

Miscellaneous Construction

Ala., Mobile—Incinerators—City let contract to Superior Incinerator Co., Wilson Bldg., Dallas, at \$84,500, for construction of 2 incinerators.*

Fla., Hollywood—Harbor—C. H. Windham, City Mgr., advises the following regarding improvements to Lake Mabel: Will have \$6,000,000 available for construction of first unit to depth of 35 ft. at low water, to be furnished by city of Hollywood, city of Fort Lauderdale and J. W. Young, founder of Hollywood; will soon begin work with smaller dredges; have under construction 20-in. suction rock dredger, one 5-yd. dipper dredge; 16-in. suction rock dredger, cranes, floating equipment, etc.*

Fla., Daytona Beach—Swimming Pool—City will construct \$25,000 negro swimming pool; Water A. Richards, City Mgr. See Financial News—Bond Issues Proposed.

Fla., Hialeah—Incinerator—City will construct \$25,000 incinerator; E. E. Lucas, Director of Public Works. See Financial News—Bond Issues Proposed.

Fla., Jacksonville—Incinerators—City Comm. will probably let contract to Nye Odorless Crematory Co., Macon, Ga., for two incinerators, estimated cost \$100,000; Dr. M. B. Herlong, Commr. of Health and Sanitation.

CONSTRUCTION DEPARTMENT

Fla., Miami—Racetrack—South Florida Amusement & Development Co. reported will construct \$300,000 greyhound racing track; acquired 25 acre tract near Coral Gables; grandstand clubhouse will have seating capacity of 7500.

Fla., Tarpon Springs—Pier, etc.—City Comms. let contract to E. H. Beckett for municipal pier extending 1700 ft. into Gulf of Mexico from foot of Gulf road, and pavilion to be built on end of pier; cost of pier \$50,000 and pavilion \$15,000.*

La., Lake Charles—Embankment—State Highway Comm., Reymond Bldg., Baton Rouge, let contract to Gifford Construction Co., N. Texas Bldg., Dallas, to complete embankment in Sabine Marsh on Old Spanish Trail; estimated cost \$234,500.

Mo., Kansas City—Dikes—U. S. Engineer Office, Postal Bldg., making plans for dike, revetment and clump dikes on Missouri river; dikes and revetment at Fire Creek Bend and at Bahers Bend, also dike at Lexington; C. C. Gee, Dist. Engr.

N. C., Morehead City—Island City and Carteret County filed permit to enlarge and develop Island in harbor. Address City Clerk.

Tenn., Memphis—City, Rowlett Paine, Mayor, will construct garbage and refuse destructor; bids August 17. (See Machinery Wanted—Garbage and Refuse Destructor.)

Tenn., Tusculum, Sta. Greeneville—Swimming Pool—Kingslover & Fudale of Bristol, Tenn., has contract for 25x75-ft. swimming pool in connection with school gymnasium. (See Buildings, Contracts Awarded, Schools.)*

Tex., Corpus Christi—Habor—Government has authorized survey of an extension of canal from Corpus Christi to Rio Grande and for an allotment of \$2,000,000 by the Chief of Engrs. to begin construction work upon that portion of canal in Rivers and Harbors Act, approved March 3, 1925; namely, from Mississippi River via Plaquemine locks and Morgan City, La., to Galveston Bay, Tex.; \$1,250,000 will be available for construction in Louisiana and \$750,000 on section from Port Arthur to Galveston Bay in Texas.*

Tex., Houston—Subway—City, O. F. Holcombe, Mayor, received low bid from A. N. Fitzgerald, 615 Peden St., at \$121,424, for subway at 69th St.*

Tex., Houston—Elevators—Port Comms. let contract to Webster Manufacturing Co., 4520 Cortland St., Chicago, Ill., for two additional power shovels for the elevator to accelerate the unloading of grain from cars; also to William Moore Co., Second National Bank Bldg., for driving of piling.*

Tex., San Benito—Incinerator—City contemplates building \$25,000 incinerator; Sanitary Engineering Co., Engrs., 308 Hughes St., Houston. See Financial News—Bond Issues Proposed.*

Miscellaneous Enterprises

Ala., Birmingham—Denham, Van Keuren & Denham, Archts., Age-Herald Bldg., received bids for construction of The Merchants and Manufacturers Terminal Building at S. 12th and Fourth Ave. for storage, etc.: 2-story, 130x440 ft., modern fireproof building, first unit; ultimately 4 similar buildings will be built, costing \$2,000,000.

Ala., Birmingham—Dixie Lamp & Shade Co., Inc. chartered; Ruth Schwabacher, Pres.

Ala., Florence—Florence Chamber of Commerce, L. A. Schantz, Sec., advises underwear factory will be established; erect \$75,000 building, 3-story, 60x280 ft.

Ark., Fort Smith—Fort Smith Co-operative Window Glass Co., capital \$75,000, incorporated; Edgar Berry, W. C. Cline.

D. C., Washington—Corcoran Courts Hotel Corp. chartered; Richard L. Merrick, Woodward Bldg.

Fla., DeLand—R. C. Booker of Reidsville, N. C. let contract to Interlocking Tile & Construction Co. of DeLand for \$20,000 creamery and ice cream plant; 28x60-ft., Spanish design and stucco finish; daily capacity 500 gallons.

Fla., Jacksonville—Cigars—John H. Swisher & Sons, John Swisher, Pres., 16th St., will expend \$50,000 on additional equipment, including 10 new cigar-making machines, increasing capacity.

Fla., St. Petersburg—The Producers Poultry and Dairy Farm, B. E. Bagby, Gen. Mgr., First National Bank Bldg., capital \$1,000,000; reported, has 9340 acres land, establish poultry farm, dairy plant and truck farm, erect packing and storage plant, etc.

Fla., Tallahassee—Brushes—Adolf H. Schaffert of Jacksonville reported interested

in establishing plant to manufacture fiber brushes.

Ga., Albany—Underwear—J. G. Scherf Manufacturing Co., capital \$100,000, J. G. Scherf, Pres. of Andalusia, Ala., has building, machinery purchased for manufacture of underwear.

Ga., Atlanta—Guthman's Laundry, Whitehall and Brotherton Sts., has permit for \$30,000 repairs and alterations to plant.

Ga., Hawkinsville—Seminole Milk Co., 342 Riverside Ave., Jacksonville, Fla., reported purchased creamery from L. F. Fleming; establish and operate milk station.

Ky., Ashland—Advance Publishing Co., capital \$100,000, incorporated; Walter S. Clayton, Harry T. Kerns.

Ky., Mt. Sterling—R. G. Elam, Detroit, Mich., leased Senieu Bldg., on W. Locust St.: will establish factory to manufacture overalls.

La., New Orleans—Quinette Amusement Co., Inc., capital \$250,000, chartered; M. H. Hart, 2027 General Taylor St.

Ky., Newport—The Hiland Amusement Co., capital \$50,000, incorporated; Frank W. Huss, Frank B. Benton.

Md., Baltimore—Enamels, etc.—George L. Sleight, Keyser Bldg., let contract for 1-story building on Bell Grove Rd., Brooklyn; manufacture bituminous enamels and solutions, weekly capacity 2000 gal.

Md., Baltimore—The Noxzema Chemical Co., Geo. A. Bunting, Pres., 102 E. Lafayette Ave., will soon begin construction of \$20,000 factory building on Falls Rd. near Thirty-second St., 1-story, 60x100-ft.; to be completed by October 1.

Md., Baltimore—Brush and Broom Fiber, etc.—Wilkins Bros., 2401 Frederick Ave., will soon begin construction of \$100,000 factory on Ninth St.

Md., Cumberland—Queen City Glass Co. will rebuild factory near Market St. bridge.

Miss., Biloxi—Collins Bros. Contracting Co. incorporated; Wm. J. Collins, Owen T. Corr.

Mo., Charleston—The Charleston Sweet Potato Storage Co., capital \$10,000, incorporated; W. C. Bryant, E. L. Brown.

Mo., Columbia—Toilet Articles—Dimitt's, Inc., capital \$50,000, chartered; J. B. Hopper, F. C. Dimitt, Rocheport.

Mo., Kansas City—Bread, etc.—Bakers Service Co., capital \$15,000, incorporated; Wm. E. Lake, 5625 Cherry St.

Mo., Kansas City—Budd Park Dairy Products Co., capital \$8000, incorporated; Jens Jensen, Eighty-ninth and Broadway.

Mo., Kansas City—The Field Hardware Manufacturing Co., 111 E. 31st St., will erect \$12,500 factory at 1020 Woodswether Rd.

Mo., Kansas City—Amusements—Lake Tapawingo Development Co., Inc., chartered; Hanery C. Smith, 1510 S. Seventeenth St.

Mo., Kansas City—Canadian Construction Co. incorporated; Joseph F. Porter, 825 W. Fifty-sixth St.

Mo., Kansas City—Chemical Preparations—The Claygo Remedy Co., capital \$50,000, incorporated; Carl J. Turner, 1041 Rowland Ave.

Mo., St. Joseph—Howard Amusement Co. incorporated; J. Bill Howard, W. M. Norton, 813 Corby Bldg.

Mo., St. Louis—Gotham Pictures Exchange, Incorporated; Jack Well, 702 Eastgate St.

Mo., St. Louis—Construction—Mound City Erection Co., Inc., 6155 Gambleton Pl., capital \$20,000, chartered; J. L. Jeffries.

Mo., St. Louis—Theater Publishing Co. incorporated; L. A. Rawlings, 5983 Ridge St.

Mo., St. Louis—Palm Theater Co., capital \$20,000, incorporated; D. Fishman, 5503 St. Louis St.

Mo., St. Louis—Banner Bindery Co. incorporated; Otto W. Bruelmann, 7324 Lyndauer St.

Mo., St. Louis—Efficient Electric Co., Inc. chartered; John G. Weber, 6620a Colorado St.

Mo., St. Louis—Independent Shoe Manufacturers Incorporated; A. B. Corkins, 5624a Maple St.

Mo., St. Louis—Shoes—Goldman-Zimmerman, Inc., chartered; Wm. H. Goldman, 5790 McPherson St.

Mo., St. Louis—Electrical Appliances—Arc Electric & Elevator Repair Co., capital \$15,000, incorporated; Arthur L. Reuhl, 2130 Stanbury St.

Mo., St. Louis—Chemicals—G. H. Packwood Manufacturing Co., capital \$20,000, incorporated; G. H. Packwood, Jr., B. E. Thomas.

Mo., University City—Good Luck Glove Co., capital \$40,000, incorporated; Daniel Lurie, Harry A. Frank, 208 N. Broadway, St. Louis.

N. C., Asheville—Cherokee Construction Co., capital \$50,000, incorporated; Thad. D. Smith, J. R. Gibson.

N. C., Charlotte—Rapidometer Manufacturing Co., D. E. Rhyne, Lincolton; Geo. A. Neal, Charlotte, incorporated to manufacture adding machines.

N. C., Dunn—Mercantile—Ben Fleishman & Sons, Inc., capital \$250,000, chartered; Ben Fleishman, Baltimore, Md.; William Fleishman, Dunn.

N. C., Durham—Sorrell Hardware Co., capital \$50,000, incorporated; W. A. Sorrell, Milton Ave.

N. C., Durham—Durham Building & Fuel Co., capital \$100,000, incorporated; P. E. Whitehead, E. F. Edwards, both of Smithfield.

N. C., Granite Falls—Lovelady Manufacturing Co., capital \$25,000, incorporated; E. E. Moore, C. L. Clinton.

N. C., Lexington—Overalls—Siceloff Manufacturing Co., D. S. Siceloff, Owner, constructing by day labor 3-story, 46x50-ft. addition, brick, wood floors, Flintkote roof; will install heating plant and additional overall machinery. (See Machinery Wanted—Overall Machinery.)*

N. C., Littleton—Fire Fighting Equipment—Town Comms. will purchase fire pumps and motors; receive bids Aug. 9; E. C. Bobbitt, Clerk. (See Machinery Wanted—Fire Fighting Equipment.)

N. C., Pinehurst—Southern Pines Theater Co., capital \$60,000, incorporated; Richard S. Tufts, Chas. W. Plequet.

N. C., Tarboro—Tarboro Tobacco Co., capital \$100,000, incorporated; B. M. Hart, T. T. Thomas; operate tobacco warehouses.

N. C., Winston-Salem—Realty Bond Co., 16 W. Third St., has permit for \$10,000 towel and linen supply factory to be erected on Seventh St.; Erick.

N. C., Winston-Salem—The Mengel Co., Winston St., advises, will convert part of wood box plant into manufacture of fiber boxes; equipment being purchased; main office Louisville, Ky.*

Okl., Tulsa—Levin Chemical Manufacturing Co., capital \$50,000, incorporated; M. L. Levin, Pawhuska; Hugh Wyatt, Tulsa.

Okl., Tulsa—Ozark Chemical Co., P. Kelly, Mgr., West Tulsa, reported contemplated building \$400,000 plant addition.

S. C., Greer—Publishing—M. G. Lewis of Greenville and H. H. Harris, El Paso, Tex., acquired the "Greer Citizen;" will publish.

S. C., Orangeburg—The Orangeburg Community Hotel Corp., capital \$300,000, incorporated; F. A. Adden, H. C. Wannamaker, Jr.

S. C., Rock Hill—J. Brown Neill, C. L. Cobb and associates reported have tentative plans for erection of factory to manufacture mechanical cotton picker, perfected by Mr. Neil.

S. C., Union—Southeastern Theater Co., incorporated; J. A. Reynolds, Mrs. Bay D. Reynolds.

Tenn., Chattanooga—Crane Enamelware Co., W. H. Powell, Gen. Mgr., Box 680 Altton Park, advises: We are not planning an extension at this time.*

Tenn., Johnson City—Johnson City Steam Laundry will erect \$15,000 building cor. Boone St. and Wilson Ave.

Tenn., Knoxville—Crockett Printing Co. incorporated; C. W. Crockett, 1239 Armstrong Ave.

Tenn., Pulaski—Williams Abattoir, Inc., capital \$20,000, chartered; Spencer Williams, J. H. Hagen.

Tenn., Winchester—David Lynch, 1416 Gartland Ave., Nashville, reported will establish weekly paper, "The Chronicle."

Tex., Amarillo—Blackstone Hotel Co., capital \$16,000, incorporated; C. W. Points, Guy Robertson.

Tex., Amarillo—Capitol Hotel Co., Inc., capital \$100,000, chartered; Ed Mayer, C. G. Mayer.

Tex., Beaumont—Wescalder Preserves, capital \$100,000, incorporated; F. B. Martin, 2375 McFaddin St.

Tex., Dallas—Construction—H. C. Wilson, Inc., capital \$10,000, chartered; H. C. Wilson, 816 Canty St.

Tex., Dallas—Merchandise—Tabers, Inc., capital \$50,000, chartered; Eugene Taber, 4239 McKinney St.

Tex., Dallas—United Heater Corp., capital \$10,000, chartered; A. J. Dossett, B. D. Hodges.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

CONSTRUCTION DEPARTMENT

Tex., Dallas—Watson Catering Co. incorporated; H. G. Rosenbaum, Charles Watson.

Tex., Dallas—Argyle Apartments, Inc., capital \$50,000, chartered; C. K. Bullard, Magnolia Bldg.

Tex., Dallas—Leather Specialties—Graton & Knight Co., Worcester, Mass., reported establish branch in Texas; F. E. Hooker, State Agt.

Tex., Dallas—The Childers Construction Co., capital \$50,000, incorporated; W. E. Childers, 522 Grandview St.

Tex., Dallas—Electrical Fixtures—Moe-Bridges Co. of Texas, capital \$10,000, incorporated; J. S. Dean, 800½ First St.

Tex., Fort Worth—Photo Amusement Co., capital \$130,000, incorporated; J. S. Phillips, Bowman Springs Road.

Tex., Houston—Better Built Homes Co. incorporated; Nathan Minchen, West Bldg.

Tex., Houston—Merchandise—A. H. Hess & Son, capital \$20,000, incorporated; A. H. Hess, 709 Louisiana St.

Tex., Houston—Janitors Supply Co., capital \$20,000, incorporated; T. H. Crawford, Peerless St.

Tex., Houston—Pearl Laundry & Cleaners, capital \$15,000, incorporated; D. F. Boyles, Union National Bank Bldg.

Tex., Houston—Neel Dairy Co., C. A. W. Neel, Pres., 1014 Ashland Ave., will erect 14x24-ft. addition, frame, concrete floors, composition roof, construction by local contractors; install ice-making, churn and buttermilk machine.*

Tex., Houston—Engraving—Joseph Finger, Archt., Keystone Bldg., receiving bids for construction of additional floor to 2-story building at Walker Ave. and La Branch St., occupied by Star Engraving Co., 1501 Walker St.; estimated cost \$10,000.

Tex., Mexia—Mexia Theaters, Inc., capital \$20,000, chartered; Louis Dent, Joe Neuhauser.

Tex., Olmita (Mail) Brownsville—Olmita Packing Co., capital \$10,000, incorporated; J. C. Bennett, H. H. Fanning.

Tex., San Antonio—Clothing—Bell Manufacturing Co., capital \$40,000, incorporated; C. L. Solomon, 220 E. Travis St.

Tex., San Antonio—Merchandise—Southern Supply Agency, Inc., chartered; Alan Summers, J. I. Cadenhead.

Tex., San Antonio—C. P. Zoerb plans establishing plant to manufacture leather novelty goods.

Tex., San Antonio—The Alamo Plumbing Supply Co., capital \$40,000, incorporated; O. T. Dix, 1706 Main St.

Tex., San Antonio—Studio—Out-West Pictures Corp., George La Dura, V. Pres. and Gen. Mgr., reported will erect \$50,000 studio on S. Presa St.; Adams & Adams, Archts., Builders Exchange Bldg., San Antonio.

Tex., San Benito—Abattoir—City contemplating building \$35,000 abattoir, reinforced concrete, brick and steel; Sanitary Engineering Co., Engrs., 308 Hughes St., Houston. See Financial News—Bond Issues Proposed.*

Tex., Sherman—Nugrape Bottling Co., capital \$25,000, incorporated; Irvin Kennedy, J. J. Eubank.

Tex., Sherman—The Sherman Hotel Co., capital \$80,000, incorporated; W. C. Witt, J. F. Hyman.

Tex., Uvalde—Merchandise—H. W. Little, capital \$75,000, chartered; H. W. Little, R. L. Anderson.

Tex., Vernon—Vernon Theaters, Inc., capital \$15,000, incorporated; W. E. Paschal, Joe Neuhauser.

Va., Covington—Morton C. Tuttle Co., Contr., Park Square Trust Bldg., Boston, Mass., advises the Bates Valve Bag Co.'s building is 1-story, 80x240-ft., structural steel frame, continuous steel sash, brick pilasters, wood roof; footings, grade beams and paving of concrete; plans by owners; main office 8200 S. Chicago Ave.; structural steel to be furnished by Virginia Bridge & Iron Co., Madison Ave. N. E., Roanoke, Va.; steel sash by J. S. Thorn Co., 20th and Allegheny Sts., Philadelphia, Pa.; no other sub-contracts placed.*

Va., Danville—Waddill Printing Co., 420 Main St., let contract to Plummer Wiseman & Co., Danville, at \$10,000, for 60x60-ft. addition, concrete construction; install printing and lithographing machinery.*

Va., Petersburg—Tobacco Storage—Butterworth & Jarman, Inc., capital \$10,000, chartered; Geo. L. Butterworth, M. B. Shortt.

Va., Richmond—Oils—Harwood Bros., Inc., 1009 E. Canal St., will rebuild burned plant,

60x150-ft., 4-story, brick, tin or composition roof.*

W. Va., Bluefield—Handkerchiefs—H. A. Lucas, L. C. Bldg., has contract and begun construction of handkerchief factory, first unit to be 2-story, 60x200 ft., approximate cost \$65,000; Garry & Sheffey, Archts., First National Bank Bldg.*

W. Va., Moorefield—The Supplee-Wills-Jones Milk Co., 1523 N. 26th St., Philadelphia, Pa., reported, will erect milk plant.

W. Va., Weston—The Weston Glass Co. increased capital, \$100,000 to \$250,000.

Motor Bus Lines and Terminals

Ala., Birmingham—Powhatan Transportation Co. incorporated; J. H. Tidmore, W. B. Worthington.

Ark., Little Rock—Smith Arkansas Traveler Co., capital \$300,000, incorporated; W. A. Smith, 2408 Wolfe St.

D. C., Washington—Washington Coach Co., incorporated; James H. Stephens, 2001 16th St. N. W.

Fla., Key West—The Key West Electric Co., Bascom L. Grooms, Mgr., Front and Greene Sts., operating buses for general city service; have building for garage.*

Miss., Gulfport—Mr. and Mrs. Donzelli have permit to operate two bus lines from Gulfport to Laurel via Hattiesburg on Magnolia highway, and from Gulfport to Mobile along Coast route of Old Spanish trail.

N. C., Winston-Salem—Bon Air Realty Co., West Third St., reported will operate Hanes Rubber Co. Bus Line.

Tenn., Athens—Dr. W. W. Grant interested in establishing bus lines between Athens and Tellico Plains via Mecca.

Tenn., Terrell—Sunshine Bus Lines, Inc., capital \$150,000, chartered; A. W. Riter, John Awtry.

Va., Onancock—The Eastern Shore Transit Co. applied for permit to operate bus line between Cape Charles and Salisbury along the Del-Mar-Va. trail.

Motor Cars, Garages, Filling Stations

Ark., Hope—J. P. Brundidge let contract to John Booth for \$15,000 garage on E. Second St., 1-story, 100x115 ft., brick, plate glass front.

Ark., Siloam Springs—Fred Benton will erect garage and filling station in Proctors addition.

Fla., Belleview—E. S. French let contract to Charles L. Jones for garage building.

Fla., Manatee—Midway Garage, Pratt & Macy, Owners, has permit for \$12,000 garage building on Manatee Ave., 60x80 ft., concrete, stucco finish.

Ga., Atlanta—E. C. Shatterly, 47 Lakewood Ter., acquired site on Lakewood Ave., Lakewood Heights, erect auto accessory plant.

Ga., Macon—The Texas Co. acquired 62x100-ft. site cor. Forsyth and Monroe Sts.; will erect filling station.

Ky., Lexington—City Hall Garage Co., capital \$20,000, incorporated; John Webb, D. R. Burris.

Md., Baltimore—Homewood Garage Co. let contract to The Consolidated Engineering Co., 20 E. Franklin St., for garage, 3330 St. Paul St.; 2½ stories, ornamental stone front, brick and concrete; provide for 156 automobiles in individual storage space; Palmer, Willis & Lamdin, Archts., 513 N. Charles St.; estimated cost \$90,000; install \$10,000 equipment.*

Md., Baltimore—Wood Hydraulic Hoist & Body Co., James and Cross Sts., acquired 100x172 ft. site at Taylor Ave. and 25th St.; will erect 1-story brick service station 50x120 ft., concrete floors, daylight type; plans being prepared by main office of company at 7924 Riopelle St., Detroit, Mich.; soon let contract.*

Mo., Boonville—The Lester-Wallace Motor Co., capital \$20,000, incorporated; B. M. Lester, W. B. Wallace.

Mo., Kansas City—Joseph Studna, 417 Oak St., acquired adjoining property; will enlarge garage.

Mo., Springfield—Chain Battery Service Station, 233 W. Commercial St., will occupy building to be erected at 229 W. Commercial St., cost \$10,000; work begun.

Mo., St. Louis—Raymond Garage, Inc., 3740 Sullivan Ave., reported let contract to W. C. Harting Construction Co., International Life Bldg., for remodeling garage, 1-story, 75x260 ft. and 95x122 ft., L shape; \$45,000;

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Koerner Engineering Co., Engr., Syndicate Trust Bldg.*

Mo., Webster Groves—Tate Motor Co., Inc., 3001 Washington St., St. Louis, has permit for 1-story, 145x157-ft. auto sales and service building at 216 W. Lockwood St.; concrete, brick and tile, cost \$48,000; Widmer Engineering Co., Contr., 612 Laclede Gas Bldg., St. Louis.

Tenn., Knoxville—John L. Greer acquired site cor. Randolph and Depot Ave., reported, probably erect filling station and accessory shop.

Tenn., Memphis—National Ford Dealers' Service Corp., 208 Falls Bldg., capital \$100,000, chartered; C. S. McIntyre.

Tenn., Nashville—The National Garages, reported contemplate erecting \$500,000 garage unit with parking facilities for 500 automobiles.

Tex., Austin—The Harry E. Blum Auto Co., Inc., capital \$25,000, chartered; Harry E. Blum, 1501 W. Ninth St.

Tex., Austin—Gulf Refining Co. acquired site at Nineteenth and Congress Ave.; will erect oil and gasoline station.

Tex., Dallas—Troupe Motors, Inc., capital \$20,000, chartered; Floyd Troupe, F. W. Morgan.

Tex., Dallas—Eagle Claw Auto Boot Co., capital \$25,000, incorporated; J. L. D. Blevens, 736 S. Beckley St.

Tex., Dallas—Hagner Tire Stores, incorporated; D. S. Fitzgerald, W. J. Hagner.

Tex., Wichita Falls—Fritz Motor Co., Eighth and Austin Sts., let contract to Taylor Bros., 215 Brown Bldg., for 2-story, 90x100-ft. garage, brick and reinforced concrete; cost \$66,900; Pate & Thompson, Archts., 1005 City National Bank Bldg.

Tex., Houston—J. C. Wilson, 308 Payne St., let contract to B. D. Pittman for \$30,000 garage and store building on Harrisburg Blvd.: 1-story, concrete.

Tex., Panhandle—Singleton Motor Co., capital \$25,000, incorporated; Herbert and G. D. Singleton.

Tex., Waxahachie—The Broyles Motor Co., capital \$30,000, incorporated; Earle North, W. B. Broyles.

Va., South Boston—Glascott Motor Co., Inc., capital \$10,000, chartered; W. O. Glascott, E. C. Garrard.

W. Va., Huntington—Huntington Motor & Truck Co., T. J. Shipley, 121 Third Ave., expending \$20,000 on plant addition; 2-story, brick and steel; work begun.

Roads, Streets and Paving

Large sums are being expended for roads, streets and paving in connection with Land Development operations. Details will be found under that classification.

Proposed Construction

Alabama—State Highway Comm., Montgomery, receives bids Aug. 18 for 2 roads: 22 mi. gravel and sand-clay connecting Greenville, Butler County and Luverne, Crenshaw County; 14.35 mi. gravel between Selma and Orrville, Dallas County; W. A. McCalla, State Highway Engr.

Ala., Anniston—City, W. T. Morton, Jr., Treas., receives bids Aug. 12 to pave 7 streets, including Twenty-first, Sixth, Tenth; estimated cost \$54,829.

Ala., Gadsden—City receives bids soon for paving, mostly in East Gadsden, cost \$44,000. Address City Clk.

Ala., Tuscaloosa—City Comm. plans paving Twentieth Ave., Tenth St. and Maplewood Court. Address City Clk.

D. C., Washington—Dist. Commrs. plan straightening, grading and surfacing Brothers Place, laying curbs and gutters on Portland and Fifth St., all in Congress Heights.

Fla., Coral Gables—City Commrs. plan letting contract Aug. 1 for street and sidewalk paving in 6000 acres, bounded by Flagler St., Sunset road, Douglas road and Red road.

Fla., Daytona Beach—City, Walter A. Richards, Mgr., plans paving over 6 streets, cost \$275,000. See Financial News—Bond Issues Proposed.

Fla., Eau Gallie—City plans 40 blocks additional paving, totaling about 3 mi., including extension Fifth St. to Golf Manors, and laying concrete curb and gutter. Address City Clk.

Fla., Gainesville—Alachua County Special Road & Bridge Dist. No. 1, W. R. Thomas, Chmn., receives bids Aug. 3 for about 56,300 sq. yd. surface treatment, County Road No. 7, Orange Heights to Melrose; plans on file; Henry L. Baker, Dist. Engr.

Fla., Gainesville—City plans paving 5 thoroughfares. Address City Engr. Courtwright.

Fla., Hialeah—City, E. E. Lucas, Director of Public Safety and Works, plans improving streets, laying sidewalks and curbs, cost \$200,000. See Financial News—Bond Issues Proposed.

Fla., Indian Rocks—Town, George B. Merrill, Clk., plans about 4 mi. 16-ft. rock base, with sheet asphalt or penetration road, and about 2 mi. concrete road, with retaining wall. Indian Rocks Beach, estimated cost \$120,000; S. C. Park, Mayor-Commr.; Baird & Schriber, Engrs., Marble Arcade, Lakeland.

Fla., Jacksonville—City Comm., M. W. Bishop, Sec., receives bids July 26 for about 32,700 sq. yd. vitrified brick pavement on shell or lime rock base; plans on file and from George B. Hills Co., Engrs., Liggett Bldg.

Fla., Key West—City, Board of Public Works, plans paving all connecting streets between White and Palm Ave., also Duval St., from Division to ocean front.

Fla., Madison—Florida State Road Commission, F. A. Hathaway, Chmn., Tallahassee, receives bids August 10 for 15.99 mi. Road to Madison, concrete, sheet asphalt, bituminous concrete and bituminous macadam, on S-in. lime rock base; plans on file and from Div. Engr.; J. L. Cresap, State Highway Engr.

Fla., Melbourne—City, W. K. Seitz, Mgr., receives bids July 23 for 152,500 sq. ft. cement sidewalks.

Fla., Miami—City, Ernest Cotton, Director of Public Service, plans paving Third Ave. from Thirteenth St. to point north of Thirtyninth, 100 ft. wide, with sidewalks and parking, estimated cost \$280,800; F. H. Wharton, Mgr.

Fla., Miami—Dade County Commrs. plan road and bridge building; cost \$3,000,000. See Financial News—Bond Issues Proposed.

Fla., Sarasota—City, J. R. Brumby, Jr., Commr. of Public Works, plans improving several streets in downtown and in southeastern sections, cost \$91,000. See Financial News—Bond Issues Proposed.

Fla., St. Petersburg—City, S. S. Martin, Director of Finance, receives bids July 26 for \$1,000 sq. ft. sidewalks.

Fla., Sebring—City, Wm. E. Parrish, Mayor, plans widening, paving and improving streets, cost \$50,000. See Financial News—Bond Issues Proposed.

Fla., Tampa—City, Wm. E. Duncan, Clk., plans grading, paving and curbing alley between Rome and North Dakota Ave., Block 9, Hyde Park; 4-in. granite curbing, 3-in. vitrified brick pavement, sand base; Orleans Ave. Horatio to Platt, 7-in. concrete curbing, 2½-in. asphalt block pavement on 6-in. rock or shell base; Fourth St., 4-in. granite curbing, 3-in. vitrified brick pavement, 6-in. rock or shell base; Perry G. Wall, Mayor-Commr.

Fla., Tampa—Hillsborough County Commrs., W. A. Dickenson, Clk., receives bids July 30 to pave, grade and curb Bayshore Blvd., city limits of Tampa to Maryland Ave., and for 15 connecting county roads, including Flotto, Fillan Ave.; Druid Hills, Bonnie Brae Blvd.; 1½-in. sheet asphalt on 3-in. sand asphalt block base, concrete curb and drainage structures; plans from County Engr.

Fla., Tampa—Hillsborough County Commrs., W. A. Dickenson, Clk., plan paving 13 roads with 6-in. lime rock base, and surface treated with asphalt and crushed aggregate, construct reinforced concrete drainage structures in Seffner Special Road and Bridge Dist. See Financial News—Bond Issues Proposed.*

Fla., Tampa—Hillsborough County Commrs., W. E. Dickenson, Clk., plan widening Tampa-Plant City road 15 to 20 ft.

Ga., Hoboken—Brantley County plans 2 roads through county. Address County Commrs. See Financial News—Bond Issues Proposed.*

Ga., Milledgeville—City, R. T. Baisden, Sr. Clk. and Treas., receives bids Aug. 3 for 22,000 sq. yds. hard surface pavement with necessary curb, gutter and storm drainage; plans on file and from Harwood Beebe Co., Municipal Engrs., Spartanburg, S. C.; H. H. Ennis, Mayor.

Ga., Savannah—Chatham County Commrs.

plan road from Whitmarsh Island to Oatland Island.

Ga., Waycross—City, Abram Cook, Mgr., plans 10 blocks additional paving, including Brunel, Parker.

Kentucky—State Highway Comm., Frankfort, receives bids July 26 for 10 roads and 5 bridges: Boyd County, 10,331 ml. 16-ft. reinforced concrete, bituminous macadam, on slag, bituminous macadam on limestone or rock asphalt on limestone, slag or concrete, Cannonsburg-Louisburg road, Midland Trail from Cannonsburg to Lawrence County line; 20,000 cu. yd. earth excavation, Franklin County, 3,421 ml. 20-ft. asphalt on concrete base or bituminous concrete on concrete base or reinforced concrete, Frankfort-Versailles, Georgetown Pike at Green Hill to Woodford County line; Letcher County, 10,413 ml. 16-ft. bituminous macadam-limestone, reinforced concrete standard material, or rock asphalt on crushed limestone, Round Gap-Jenkins section; bituminous macadam-limestone, bituminous macadam sandstone base or rock asphalt-limestone, rock asphalt napped sandstone base or rock asphalt concrete base, etc., Jenkins-Seco section, 11,500 cu. yd. earth excavation.

In Whitley County, 5,809 ml. 16-ft. bituminous macadam, rock asphalt, crushed limestone base or reinforced concrete, Williamsburg-Jellico road, 21,000 cu. yd. earth excavation; Floyd County, 9,235 ml. 24 and 28 ft. grade and drain, Prestongrub-Allen road, east cit ylimits Preston to Allen, 87,967 cu. yds. earth excavation; Fulton County, 6,046 ml. 16-ft. gravel or waterbound macadam, Fulton-Hicks, Cayce to point east of Hickman, 11,000 cu. yd. earth excavation; 10,491 ml. 16-ft. gravel or waterbound macadam, Fulton-Hicks road, Fulton to Cayce, 20,800 cu. yd. excavation; Union County, 5,513 ml. 16-ft. gravel or waterbound macadam, Morganfield-Marion, from Sturgis to Crittenden County line at Perry's Ferry, 8000 cu. yd. excavation; Calloway County, .549 mi. 16-ft. rock asphalt on sheet asphalt, bituminous concrete on gravel base, Murray-Mayfield, from city limits of Murray at Twelfth and Main Sts. to Langston Ave.

In Grayson County, steel and concrete bridge on Litchfield-Elizabethon road, two 124-ft. steel and two 20-ft. concrete spans, 58,380 lbs. reinforcing and 294,800 lbs. structural steel; Floyd County, two 135-ft. and one 190-ft. steel spans, Prestongrub-Lackey road, 58,650 lbs. reinforcing and 630,700 lbs. structural steel; two 50-ft. concrete spans, Prestongrub-Paintsville road, 82,750 lbs. reinforcing steel; Carter County, two 100-ft. and one 102-ft. concrete arches, two 30-ft. concrete approaches, roadway approaches, Grayson-Olive Hill road, 190,000 lbs. reinforcing steel; Trigg County, four 50-ft. concrete spans, roadway approaches, Cadiz-Benton road, 103,750 lbs. reinforcing steel; E. N. Todd, State Highway Engr.

Ky., Carlisle—Nicholas County plans road building. Address County Commrs. See Financial News—Bond Issues Proposed.*

Ky., Owensboro—City, John Howard, Commr. of Street Dept., plans improving Walnut St., Second to Fourteenth.

Ky., Russellville—City plans about 1 mi. asphalt streets, including Ninth and Nashville. Address City Clk.

Ky., Pineville—City Clk. receives bids soon to pave all streets within city limits, including Pine and Oak.

Ky., Paducah—Board of Public Works, Race Dipple, Chmn., received low bid from D. J. Ryan Construction Co., Davenport, Iowa, at \$146,893 for sheet asphalt with concrete base street paving.*

Ky., Sandy Hook—Elliott County Fiscal Court, Allie Young, Judge, plans road to Sandy Hook. See Financial News—Bond Issues Proposed.*

Louisiana—Louisiana Highway Comm., Baton Rouge, receives bids Aug. 3 for 4 roads and furnish gravel for 4,515 ml. roads; Catahoula Parish, 4,515 ml. gravel, Jonesville Highway, from point about 8½ mi. from Jonesville to Catahoula-La Salle Parish line, through Archie; Jefferson Parish, 465 ml. Baton Rouge-New Orleans Highway, from Orleans-Kenner Ry., William St., Kenner, to I. R. & N. C. Co. crossing; 7,529 mi. Baton Rouge-New Orleans Highway, from William St., Kenner to Shreveport; 1,989 mi. Shreveport-Carrollton Ave. Highway, from Shreveport to Protection Levee at Orleans Parish line, Warrenite bitulithic, bituminous concrete, cold and hot mixed limestone rock asphalt, on concrete base, concrete pavement; plans on file; W. B. Robert, State Highway Engr.

La., Baton Rouge—East Baton Rouge Parish Police Jury, F. A. Woods, Sec., receives bids July 27 for 39,000 sq. yd. paving with necessary drainage structures on North Blvd. In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

extension and Clay Ave.; plans on file and from R. Swart, Engr.,

La., Cameron—Cameron Development Co., Inc., organized; George W. Carter, Pres., Port Arthur, Tex.; S. W. Sweeney, Sec. Treas., Cameron; plans road from Cameron, La., to Port Arthur, Tex.

La., Lake Charles—City Commrs. plan paving sections of 42 streets, totaling about 8 mi.; A. O. King, City Atty.

Maryland—State Roads Comm., 601 Garrett Bldg., Baltimore, receives bids Aug. 3 for 4 roads: Frederick County, 1,34 ml. macadam resurfacing, Thurmont to Graceham, Cont. F-94; Montgomery County, 2 mi. concrete shoulders, along Wilson Lane, Bethesda toward Glen Echo, and along Old Georgetown road, Bethesda toward Beane, Cont. M-71; 1,61 mi. concrete along Rockville Pike from District line through Bethesda, Cont. M-73; gravel highways in Beat No. 5. Address John N. Mackall, Chmn.; L. H. Steuart, Sec.

Md., Baltimore—Board of Awards received low bid from P. Flanigan & Sons, Hartford road and B. & O. R. R. at \$53,494, without cobblestones, and \$49,769 with cobblestones, to pave Biddle and Preston Sts. and Loney's Lane with sheet asphalt.*

Md., Baltimore—Board of Awards receives bids July 28 to grade, curb and pave with 11,200 sq. yd. sheet asphalt streets in Cont. No. 355; 7000 cu. yd. grading, Cont. No. 356; 9370 sq. yd. cement concrete, Cont. No. 357; Steuart Purcell, Highways Engr.; B. L. Crozier, Ch. Engr.; Howard W. Jackson, Mayor.

Md., Baltimore—State Roads Comm., 601 Garrett Bldg., receives bids July 27 for 46 mi. sheet asphalt along Belair road, Franklin to Hamilton Ave., Cont. BC-63; John N. Mackall, Chmn.; L. H. Steuart, Sec.

Md., Westminster—State Roads Comm., 601 Garrett Bldg., Baltimore, received low bid from Gosnell, Russell & Co., Frederick, at \$16,950 for .46 mi. concrete road, Union Bridge toward Johnsville.*

Miss., Grenada—Grenada County Commrs. plan completing highway from Calhoun County line to point about 8 mi. from Grenada; also building other roads. See Financial News—Bond Issues Proposed.

Miss., Lexington—Holmes County plans County Commrs. See Financial News—Bond Issues Proposed.

Miss., New Augusta—Perry County Commrs. plan 2 roads: 15 mi. Dist. No. 5; 8 mi. Dist. No. 4; J. L. Wheless, Consult. Engr., Hattiesburg.

Miss., Port Gibson—Claiborne County Board of Supvrs. plans 3½ mi. gravel road, from Humphreys place 4 mi. north of Port Gibson, on Scenic Highway to Ragsdale Fork north of Ingleside, Second Dist.; cost \$18,500. See Financial News—Bond Issues Proposed.

Miss., Starkville—Oktibbeha County Commrs. plan road improvement in Starkville Separate Road Dist., cost \$200,000. See Financial News—Bond Issues Proposed.

Mo., Jefferson City—City plans paving with bituminous macadam Elm between Cherry and Chestnut. Address City Clk.

Mo., St. Joseph—City plans paving and grading parkway, cost \$813,000. Address City Clk. See Financial News—Bond Issues Proposed.

N. C., Charlotte—City, Edgar Reed, Clk., plans improving and widening South Poplar St. from West Stonewall to West Morehead St.

N. C., Greensboro—City, P. C. Painter, Mgr., receives bids July 27 for 140,000 sq. yd. paving, Cont. No. 11, and 52,000 sq. yd. paving, Cont. No. 12, estimated cost \$500,000; plans from Ray Warren, Highways Engr.

Oka., Stillwater—Payne County Commrs. plan road building. See Financial News—Bond Issues Proposed.*

S. C., Charleston—Sanitary & Drainage Comm., 39 Broad St., receives bids August 5 for 2 roads in Charleston County: 3,603 ml. to St. Paul's Township, from Charleston-Savannah Highway to Jacksboro road, 21,800 cu. yd. excavation; 1,528 ml. Meggett road, from end of concrete on Charleston-Savannah road, to railroad track, south side of Meggett, 5500 cu. yd. excavation; plans on file; E. D. Jersey, Engr.

S. C., Walhalla—Oconee County Commrs. plan paving roadway from Blue Ridge crossing above Seneca to Walhalla.

Tenn., Kingsport—City Board of Aldermen plans 23,000 ft. concrete street, Improvement Dist. No. 30, including Walnut St., from Bristol Highway to Brook St.

Tenn., Newport—Cocke County Court, Perry A. Valentine, Clk., plans 6 mi. road from Nough to North Carolina line.*

CONSTRUCTION DEPARTMENT

Texas—State Highway Comm., Hal Moseley, Chmn., Austin, received low bids for 5 roads, bridge and underpass: Bowie County, applying .5 gal. per sq. yd. asphalt surface treatment on 6.1 mi. State Highway No. 5, C. N. Burgess, New Boston, \$9594; Red River County, 15.05 mi. gravel surfacing, State Highway No. 5, Pinckney B. Price & Co., Paris, \$64,457; Jones County, 15.265 mi. gravel surfacing, State Highway No. 18, H. F. Evans, Austin, \$13,204; .124 mi. underpass, State Highway No. 18, at Wichita Valley R. R. Crossing, Stamford, Thomas & Ratcliff, Rogers, \$13,204; Shelby County, 5.02 mi. grading and drainage structures, State Highway No. 33, J. S. Moore & Sons, Lufkin, \$36,125; Walker County, 1.061 mi. grading and drainage structures for approach to bridge across Harmon Creek, Reynolds & Sutton, Tyler, \$6221; bridge over Harmon Creek, Thomas & Ratcliff, \$18,506.*

Tex., Abilene—Taylor County Comms. Court, Carlos D. Speck, County Judge, receives bids Aug. 10 for 3 roads and 13 bridges: 1.621 mi. grading and drainage structures, Highway No. 1, Trent to Nolan County line, 17,542 cu. yd. excavation and borrow; 11,585 mi. grading and bridges, Highway No. 1, Trent, through Merkel to point about 10 mi. from Abilene, 71,247 cu. yd. excavation and borrow, 5378 lbs. reinforcing steel; also 6 concrete girder bridges and multiple box culverts, over 20-ft. span, and repair one bridge, 101,734 lbs. reinforcing steel; 6,630 mi. grading and bridges, Highway No. 1-A, Abilene to Callahan County line, 97,776 cu. yd. excavation and borrow, 16,638 lbs. reinforcing steel; also 6 concrete girder and multiple box culvert over 20-ft. spans, 221,232 lbs. reinforcing steel; plans from State Highway Dept., Austin, and L. C. McCandless, County Engr.*

Tex., Anderson—Grimes County, Ralph W. Barry, County Judge, receives bids Aug. 19, tentative date, for 7,547 mi. grading and bridges, Highway No. 90, Roans Prairie to point north of Singleton; estimated cost \$70,000: O. A. Seward, Jr., County Engr., Navasota.*

Tex., Anderson—Grimes County, Ralph W. Barry, County Judge, plans 14 mi. grading and bridges, Highway No. 90, Anderson to Roans Prairie; estimated cost \$114,800: O. A. Seward, Jr., County Judge, Navasota.

Tex., Big Lake—City, Milton Moore, Mayor, plans 10 blocks street paving; cost \$25,000. See Financial News—Bond Issues Proposed.*

Tex., Brackettville—Kinney County Comms. Court, John D. Stadtler, County Judge, plans 16 mi. on main highway and some resurfacing, cost \$150,000. See Financial News—Bond Issues Proposed.*

Tex., Caldwell—State Highway Comm., Hal Moseley, Chmn., Austin, plans grading and constructing concrete and treated timber pile bridges, Highway No. 102, between Lexington and Milam County line; estimated cost \$54,000: A. M. McCormick, Div. Engr.

Tex., Coldsprings—San Jacinto County, D. M. Love, County Judge, receives bids August 13 for 5.492 mi. grading and bridges, Highway No. 45, Coldsprings to Willow Springs road, estimated cost \$19,000: J. P. Spiller, County Engr.*

Tex., Center—Shelby County, F. C. Powell, County Judge, plans 6,306 mi. grading and bridge, Highway No. 26-A; J. O. Booker, Res. Engr., Lufkin.

Tex., Clairemont—Kent County, H. W. Davis, County Judge, plans 13,378 mi. gravel surfacing, Highway No. 84; L. M. Ferlet, County Engr.

Tex., Cleburne—City, Mrs. Jerrine Hughes, Sec., receives bids July 30 to pave sections of 8 streets, estimated cost \$100,000: C. H. Teesdal, Engr.

Tex., Eagle Pass—Maverick County Comms. Court, W. O. Fitch, County Judge, receives bids August 12 for 2 roads: 11.96 mi. gravel surfacing, Highway No. 85, from point east of Eagle Pass to Dimmitt County line, 20,842 cu. yd. gravel base course; 12.09 mi. gravel surfacing, Highway No. 85, east from Eagle Pass, 21,079 cu. yd. gravel base course; plans from C. E. Wright, County Engr., and State Highway Dept., Austin.*

Tex., Fort Worth—City, O. E. Carr, Mgr., plans paving Cassell Blvd. and Princeton St.; D. L. Lewis, Engr.

Tex., Galveston—Galveston County, E. B. Holman County Judge, plans 2.91 mi. concrete pavement, Highway No. 6, Houston-Galveston Highway; C. C. Washington, County Engr.

Tex., Georgetown—State Highway Comm., Hal Moseley, Chmn., Austin, receives bids July 27 to build and furnish gravel for 10.36 mi. Highway No. 95, from point near Mustang Creek to Travis County line; plans on file and from M. C. Welborn, Res. Engr., Georgetown; A. C. Love, State Highway Engr.

Tex., Gonzales—Gonzales County, J. C. Romberg, County Judge, plans 9,057 mi. gravel surface, bituminous top, State Highway No. 3; J. G. Irby, Engr., Nixon.

Tex., Houston—City, O. B. Holcombe, Mayor, plans widening Austin St. to 52 ft., between Franklin and Leland, and repaving; receives bids soon to pave Lamar St., Milam to Crawford; J. C. McVea, City Engr.

Tex., Houston—City, O. F. Holcombe, Mayor, received low bid from A. M. Arnold & Co., Summer and Elder Sts., to pave Bagby St. with 2-in. rock asphalt.

Tex., Liberty—City, H. O. Compton, Mayor, plans street paving, cost \$50,000. See Financial News—Bond Issues Proposed.

Tex., Linden—Cass County, Sam L. Henderson, County Judge, plans 9.45 mi. bituminous macadam surfacing, Highway No. 8, Linden to Marion County line; estimated cost \$116,900: S. B. Jones, Res. Engr.

Tex., Palo Pinto—Palo Pinto County, E. L. Pitts, County Judge, plans grading, bridges and bituminous macadam surfacing, Highway No. 25, from Jack County line south; G. W. Courier, Engr., Fort Worth.

Tex., Panhandle—Carson County, J. A. Whiteside, County Judge, plans 86 mi. concrete roads on Highways Nos. 33 and 75 and Old Field road; cost \$1,000,000. See Financial News—Bond Issues Proposed.*

Tex., Vernon—City plans street improvement; cost \$40,000. A. H. Hall, Sec. See Financial News—Bond Issues Proposed.*

Tex., Waxahachie—State Highway Comm., Hal Moseley, Chmn., Austin, granted \$50,000 aid to Ellis County toward improving 6.9 mi. highway from Dallas County line to Waxahachie Road Dist.

Virginia—State Highway Dept., H. G. Shirley, Chmn., Richmond, received low bids for 4 roads and 2 bridges: Fairfax County, 4,064 mi. concrete, Pohick Church to Occoquan Creek, Richmond-Washington Highway, Baker-Royer Co., Electric Bldg., Richmond, \$140,477; Isle of Wight County, bascule draw bridge at Smithfield, Strobel Steel Construction Co., 53 W. Jackson Blvd., Chicago, Ill., \$24,865; substructures, Hankins & Collins, Richmond, \$76,975; Montgomery County, bridge over south fork of Roanoke River, Roanoke Iron & Bridge Works, Roanoke, \$23,843; Cumberland County, 1.3 mi. rock asphalt, through Cumberland Courthouse, C. R. Sanderson, Cartersville, \$26,228; Middlesex County, 1.16 mi. concrete, Hannaman & Burroughs Co., Salisbury, Md., \$38,841; Middlesex County, 1.45 mi. concrete, through Saluda, J. G. Davenport, Lancaster, \$28,754.*

Va., Clintwood—Dickenson County Board of Supvrs. may build road connecting with Pound River road at Freeling, up Pine Creek to Cumberland road at Osborn's Gap.

Va., Hopewell—City, Roy S. Braden, Mgr., plans improving sidewalks on Broadway.

Va., Lawrenceville—City, G. W. Wason, Mayor, receives bids July 26 for 16,000 sq. yd. pavement, 3000 sq. yd. sidewalk, 3500 cu. yd. excavation, catch basins, etc.; plans on file and from Benton, Benton & White, Engrs., Fidelity Bldg., Wilson, N. C.; J. E. Upchurch, Clk.

Va., Clarksburg—Harrison County Court, Clair N. Parrish, Clk., receives bids Aug. 12 for 20 roads and 2 bridges: Clark Dist., 1800 ft. grading and hard surfacing with concrete, Eastview; $\frac{1}{4}$ mi. hard surface with stone base, Davison Run; 2300 ft. bituminous macadam, amiesite or concrete, Philippi Pike near Grasselli; Clay Dist., $\frac{1}{2}$ mi. grading and draining road from Peoria to Oak Point; Coal Dist., $\frac{1}{4}$ mi. grading and draining from Glen Falls to Jack Run; 1800 ft. grading and concrete surfacing, Factory St., Summit Park addition to Clarksburg; Eagle Dist., 1 mi. grading and draining Phil Heldroth property to Robinson property; $\frac{1}{4}$ mi. grading and draining Elliott School to Gregory Run, 5 mi. Jones Run road from Lumberport; $\frac{1}{4}$ mi. Robinson Run road from Prospect Valley; Grant Dist., 2 mi. hard surfacing from Lost Creek toward West Millford; Sardis Dist., 1 mi. Shinnston-Middlebourne pike; $\frac{1}{4}$ mi. from Flagg Run to Twin Bridges; Simpson Dist., 2 mi. Ann Run road toward Celia Kester farm; 1 mi. road down Simpson Creek from Bridgeport; Tenmile and Union Dist., $\frac{1}{2}$ mi. hard-surfacing, stone base, Tenmile road toward Jarvisville; Ten-mile Dist., 1 mi. Halls Run road; 1 mi. Marshville road down Tenmile Creek; $\frac{1}{4}$ mi. Patterson Fork road; Romine's Mill Bridge over Elk Creek, 85-ft. span, concrete substructures; Thorberry Bridge over Lost Creek, 50-ft. span, reinforced concrete; plans from County Engr.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Manufacturers Record

W. Va., Huntington—City Comms., Homer L. Yelch, Commr. of Streets and Sewers, receive bids Aug. 2 to grade, curb and pave Ninth Ave. and Riverside Drive; plans on file and from A. B. Maupin, City Engr.

W. Va., Huntington—Cabell County Comms. plan building 8 roads, totaling about 11½ mi. in Grant Dist.; cost \$300,000. See Financial News—Bond Issues Proposed.*

W. Va., Huntington—City Com. plans widening Charleston Ave., Fourteenth to Sixteenth, and Fourteenth, Charleston to Columbia Ave., to 60 ft.; A. B. Maupin, City Engr.

W. Va., Morgantown—State Road Com., Charleston, and Monongalia County Court, John M. Gregg, Clk., receives bids Aug. 9 for 3.7 mi. grading and draining, Morgantown-Mt. Morris road, Cass Dist., between end of concrete pavement and Pennsylvania State line; plans on file and from Div. Engr., Morgantown.

Contracts Awarded

Alabama—State Highway Comm., Montgomery, let contracts for 9 roads and several bridges: Montgomery County, 13.05 mi. grading, Montgomery-Selma road, Jim Graham, Montgomery, \$58,824; for bridges, Ed Pettus, Montgomery, \$67,891; Baldwin County, 12.5 mi. grading between Perdido Station and Bay Minette, Collins & Hicks, Milton, \$98,162; Barbour County, 14.72 mi. sand clay, between Henry County line and Eufaula, Wofford & Co., Dothan, \$85,425; Ed Pettus, \$15,325 for bridges; Tallapoosa County, 8.61 mi. grading, between Jackson's Gap and Waverly, J. W. Gwin, Birmingham, \$55,591; A. H. Singer, Lafayette, \$33,764, for bridges; Coosa County, 17.29 mi. topsoil, between Kellyton and Elmore County line, A. H. Singer, Lafayette, \$113,750; Mobile County, 10.85 mi. grading, Theodore to Grand Bay, E. P. Toumlin, Mobile, \$71,619; Henry County, 13.35 mi. sand clay, Abbeville to Cattahoochee River at Fort Gaines, Wofford & Co., \$106,151; M. M. Bentley, Brantley, \$26,273, for bridges; Barbour County, 4.76 mi. sand clay, between Clayton and Eufaula, Wofford & Co., \$27,390; Marion-Winston-Franklin Counties, 12.88 mi. gravel, Haleyville to Phil Campbell, I. C. Britton, Jasper, \$71,349; gravel surfacing, J. W. Gwin, Birmingham, \$35,398; Badgett Construction Co., Guin, \$46,773, bridges; Escambia County, bridge over L & N. R. R. tracks, between Flomaton and Brewton, E. J. Crummins, Gadsden, \$5870.*

Ark., El Dorado—State Highway Comm., Little Rock, let contract to R. J. Lynch, 320 W. Markham St., Little Rock, at \$68,331, for 12.9 mi. gravel, Strong-Huttig road, Union County.

Ark., Van Buren—City, Clay Ward, Paving Commr., let contract to Sid Blevins, N. 13th St., Fort Smith, for excavation and drainage in Paving Dist. No. 6, including Cherry and N. Fourteenth St.

Fla., Fort Lauderdale—City Com., let contract to M. E. Hoffman Construction Co., Dania, for paving and S. S. Summey, Fort Lauderdale, for sidewalks on 23 streets; B. J. Horne, Mgr.*

Fla., Palm Beach—Town, L. Trevette Lockwood, Mgr., let contract to Johnson, Drake & Piper Co., Miami, at \$172,000 to widen Seminole Ave. and lay curbs, gutters, storm and sanitary sewers in Royal Park.

Fla., Tarpon Springs—J. B. McCrary Engineering Co., Atlanta, Ga., has contract to extend Pinellas Ave., from Tarpon Ave. to Orange St.

Fla., West Palm Beach—Palm Beach County Comms. let contracts for 2 roads: 5300 yd. paving, from Belvedere road to county fair grounds, Greynolds & Monroe, Box 111, at \$1.65 per sq. yd. for paving; 90 cents per cu. yd. for grading; re-surface 17,500 sq. yd. Jupiter Island road, Rudolph Tomasello, Jupiter, at \$1.28 per sq. yd.

Kentucky—State Highway Comm., Frankfort, let contracts for 8 roads: Calloway-Marshall County, 14,630 mi. grade and drain, Murray-Cadiz road, G. W. Robinson & Co., Owensboro, \$157,247; Carlisle County, 6,820 mi. bank gravel, Bardwell-Clinton, Taylor Petri & Co., Lewisport, \$57,502; Davies County, 4,157 mi. river gravel, Owensboro-Henderson, Ellis & Smeathers, Owensboro, \$28,444; Fulton County, 11,956 mi. bank gravel, Hickman-Reelfoot Lake, N. E. Stone & Co., Madisonville, \$99,374; Marion County, 5,517 mi. waterbound macadam, local stone, Lebanon-Danville, Murphy & Kerr, Georgetown, \$72,533; Ohio County, 3,134 mi. grade and drain, Rockport-Beaver Dam, J. P. Sipes & Co., Lewisport, \$45,585; Spencer County, 10,421 mi. waterbound macadam, local stone, Taylorsville-Louisville, Games & Cocke, Louisville, \$152,040.

Md., Annapolis—Bay Ridge Co., Baltimore, and Washington, D. C., let contract to James J. Stehle, 170 West St., Annapolis, to build roads and complete graveling and grading old roads in Unit No. 2, Bay Ridge Estates.

Miss., Jackson—City, A. J. Johnson, Clk., let contract to pave 8 streets with warrenite bitholithic to Dunn Construction Co., Merchants Bank Bldg., and Gaddis & Owen.*

Miss., New Augusta—Perry County Commsr. let contract to H. M. Mobley, New Augusta, for 13 mi. gravel roads; J. L. Wheless, Consult. Engr., Hattiesburg.

Missouri—State Highway Dept., Jefferson City, let contracts for 38 roads and 2 bridges: DeKalb County, 2,540 mi. 18-ft. concrete, Metropolitan Paving Co.; St. Joseph: Platte County, 3,346 mi. 18-ft. and 2,263 mi. 18-ft. concrete, Richmond Construction Co.; Excelsior Springs: Howard County, 1,091 mi. 18-ft. gravel, Thomas & Samson, Bonnots Mill, Mo.; Benton County, 208 mi. bridge, Koss Construction Co.; Des Moines, Iowa: Camden County, 3,717 mi. 18-ft. gravel, and 3,498 mi. 18-ft. gravel, LaHar Brothers, Lees Summit; Cooper County, 4,660 mi. 18-ft. gravel, and 4,984 mi. 18-ft. gravel, Graham Bros., Leeds; Dent County, 4,983 mi. 4,969 mi., 4,618 mi., and 3,642 mi., all 18-ft. gravel, A. A. Davis & Co., Kansas City; Holt County, 2,333 mi. 18-ft. gravel, G. W. Condon, Omaha, Neb.; Sullivan County, 2,836 mi. 5 mi., and 2,341 mi., all 18-ft. gravel, Thayer Construction Co., Shelbyville.

In Taney County, 2,466 mi. 18-ft. gravel, N. E. Stone & Co., and H. H. Ruddell, Jefferson City; Texas County, 1,648 mi. 18-ft. gravel, A. A. Davis; Dent County, 1,978 mi. 30-ft. graded earth, Chaney & Amyx, Lickling, Mo.; Putnam County, 4,871 mi., 4,707 mi., 3,281 mi., and 4,488 mi., all 30-ft. graded earth, E. P. Olson, St. Joseph; Ripley County, .322 mi. bridge, James C. Ellis, Rockport, Ind.; 1,128 mi. 30-ft. graded earth, Richmond Construction Co.; Advance: Shannon County, grade 4,515 mi., 3,788 mi., 4,394 mi., and 3,419 mi., Chaney & Amyx; 2,233 mi. 20-ft. graded earth, and 2,345 mi. graded earth, A. A. Davis; Stone County, .352 mi. 30-ft. graded earth, C. I. Williams, Monett; Taney County, 2,670 mi., 2,530 mi., and 2,746 mi., all 26-ft. graded earth, N. E. Stone & Co., and H. H. Ruddell; Wright County, 2,732 mi. 30-ft. graded earth, and 2,692 mi. 20-ft. graded earth, J. P. Harlin, West Plains; Lafayette County, 354 mi. 18-ft. concrete, Richmond Construction Co.; St. Francois County, 1,259 mi. 18-ft. concrete, Jos. Kesl & Sons, Edwardsville, Ill.*

Mo., Canton—City, George L. Martin, Mayor, let contract to F. O'Dell, Hannibal, for 6,400 ft. 24-in. curbs and gutter, also white way.*

Mo., Independence—Albert Hood has contract to pave North Liberty St., College to Moore. Address City Clerk.

Mo., Kansas City—City let contract to Musselman & Hall, 1018 Wyandotte St., to repave Linwood Blvd., Gillham to Benton Blvd.; to McTernan & Halpin Construction Co., Swope Pkwy., and S. Benton St., to repave Admiral Blvd., Cherry St. to Grand Blvd.

Mo., Nevada—City let contract to Fry Brothers, Iola, Kansas, to pave street along east and south side Cotter College.

N. C., Belmont—Town, C. W. Kale, Mayor, let contract to Stacey Bros. Co., Saluda, at \$192,607, for 44,000 sq. yd. paving.*

Tex., Dallas—City Comm. let contracts at about \$225,000 to pave 32 streets: Central Bitulithic Co., Praetorian Bldg.; Smith Construction Co., American National Bank Bldg.; Uvalde Paving Co., Santa Fe Bldg.; Fuller Construction Co., 409 So. Life Bldg.*

Va., Richmond—City, R. Keith Compton, Director of Public Works, let contract to McGuire & Rolfe, Electric Bldg., at \$15,000 to pave portions of Fourth and Idlewood Ave. with concrete; at \$22,900, for portions of Grove, Brookland Blvd. and Albemarle St. with asphalt; A. L. Phillips Sons, 2910 Noble Ave., \$9500 for curb and gutter in city cemeteries.*

Sewer Construction

Large sums are being expended for sewage facilities in connection with Land Development operations. Details will be found under that classification.

Ark., DeQueen—S. A. Scarborough and Oscar Story has contract for sewers on Haenecker and DeQuincy Aves.

D. C., Washington—District Commsr. receive bids July 27 for sewers. (See Machinery Wanted—Sewers.)

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Fla., Daytona Beach—City plans issuing bonds for sewer extensions; Walter A. Richards, City Mgr.

Fla., Palm Beach—See Roads, Streets, Paving.

Fla., Sebring—City, William E. Parrish, Mayor, plans storm and sanitary sewers to cost \$45,000. See Financial News—Bond Issues Proposed.

Fla., Tampa—City Commsn. receives bids July 27 for sanitary sewers. (See Machinery Wanted—Sewers.)

Fla., Titusville—J. B. McCrary Engineering Corp., Atlanta, Ga., has contract for storm sewers; Shearman Concrete Pipe Co., Burwell Bldg., Knoxville, Tenn., for pipe.

Fla., West Palm Beach—City, C. A. Blingham, Mgr., plans expending \$2,153,000 for construction of sewers in south end of city; soon receive bids for storm and sanitary sewers in Dist. No. 10.*

Ga., Atlanta—City plans expending \$10,000,000 for sewer improvement, drains, disposal plant, etc.; Wm. H. Hansell, Chief of Const.*

Ky., Fulton—City awarded contract for sewerage system to Emil H. Hartig of Evansville, Ind.

Ky., Lexington—City, Hogan Yancey, Mayor, plans installing sewer on Water St.; J. White Guyn, City Engr.

La., Baton Rouge—City has had survey by J. M. Billingsley, Consit. Engr., Interstate Bldg., New Orleans, for three trunk line sewer system.

La., Lake Charles—First Sewerage District receives bids July 28 for sewer on St. Andrew St.

Miss., Meridian—City plans issuing \$125,000 bonds for sewer extension. See Financial News—Bond Issues Proposed.

Miss., McComb—City, B. B. Helmer, Committeeman, reported to install new unit of sewer plant.

Mo., Excelsior Springs—City voted bonds for enlarging sewage disposal plant; C. Haskins, Engr., 824 Finance Bldg., Kansas City.

Mo., Independence—City Council created Sewer District No. 98.

Mo., Parma—City plans sewer system: Edward Flad & Co., Engrs., 920 Chemical Bldg., St. Louis.*

Mo., St. Joseph—City has \$1,036,000 available for storm relief and sanitary sewers. See Financial News—Bond Issues Proposed.

Mo., Versailles—See Water Works.

N. C., Southport—City reported considering installation of water and sewer lines; cost \$30,000. Address The Mayor.

Okla., Muskogee—City plans sewer system; John March, City Engr.

Okla., Okeene—City contemplates installing complete sewer system. Address The Mayor.

Okla., Oklahoma City—City will soon receive bids for Deep Fork sewage disposal plant; Bert M. Hart, City Engr.*

Okla., Prague—Blackburn Construction Co., Healdton and Wilson, Okla., has contract for disposal plant and main outfall line.*

Okla., Salina—City reported plans sewer system; Gant-Baker Co., Engrs., 1116 W. Main St., Oklahoma City.

Okla., Sand Springs—City plans installing storm sewers; C. Tingley, Engr.

Okla., Sand Springs—City has \$187,000 available for sewers. See Financial News—Bond Issues Proposed.*

Okla., Seminole—City plans installing sewers; Gant-Baker Co., Engrs., 1116 W. Main St., Oklahoma City.

S. C., Greenville—City voted \$3,000,000 sewer bonds. See Financial News—Bond Issues Proposed.

Tenn., Knoxville—F. E. Brady & Son, Martin Mill Park, R. F. D. 13, have contract for storm sewer on Bertrand St.

Tenn., Knoxville—F. E. Brady & Son, Martin Mill Pike, has contract for sewers; W. W. Mynatt, City Engr.

Tex., Dallas—See Water Works.

Tex., Nederland—See Water Works.

Tex., Palestine—Palestine Sewer Co. plans improvement to system.

Tex., Weslaco—City will probably let contract to American Rio Grande Irrigation Co. for sewer disposal plant.

W. Va., Charles Town—City reported awarded contract for storm and sanitary sewers to Ligon & Ligon, 206 E. Lexington St., Baltimore, Md., at \$69,500.

W. Va., Huntington—City, Board of Commsr. receives bids July 26 for construct-

ing trunk sewer at mouth of Four Pole Creek and along creek to Seventeenth St. (See Machinery Wanted—Sewers.)

Shipbuilding Plants

Md., Baltimore—Bethlehem Shipbuilding Corp., J. M. Willis, Gen. Mgr., has acquired land adjoining the upper yard on Key Highway; erect new buildings, increasing capacity of yard; construct three new piers, etc.; estimated cost \$1,000,000.

Telephone Systems

Ark., Fort Smith—Southwestern Bell Telephone Co., main office St. Louis, let contract to J. H. Reddick, Kennedy Bldg., for new building at N. Thirteenth and A Sts., to Hunt Electric Co., 809 Garrison St., for electric wiring; to Fort Smith Cornice and Plumbing Co., 16 N. Fifth St., for plumbing; to Francis and Hartmeir Co., 18 N. Ninth St., for heating.*

Ark., Texarkana—Two States Telephone Co., A. C. Stuart, Pres.-Gen. Mgr., Third and Elm St., let contract to J. T. Bentley for 2-story addition to present building, install new furniture, electrical and plumbing fixtures; will enlarge switchboards, etc.

Mo., Slater—Southwestern Bell Telephone Co., main office St. Louis, reported has plans for central office building; D. L. Grace, Dist. Mgr.

Mo., St. Louis—Southwestern Bell Telephone Co., Boatmen's Bank Bldg., reported acquired 130x170-ft. site cor. Clarendon Ave. and Delmar Blvd., for proposed telephone branch building.

N. C., High Point—North State Telephone Co., J. F. Hayden, Mgr., let contract to J. L. Crouse, Greensboro, for 25x56-ft. addition, brick, wood floors, Barrett specifications roof.*

Tex., Sherman—Northern Texas Telephone Co. increasing capital, \$365,000 to \$382,000.

Textile Mills

Alabama—E. J. Hessline, an associate of Hessline & Co., Inc., 777 Worth St., New York City, acquired Autauga Cotton Mills, Prattville, and Montala Manufacturing Co., Montgomery; L. H. Beck, Griffin, Ga., Mgr.

Ark., Monticello—Monticello Cotton Mills, F. B. Gardner, Mgr., advises: "Additional preparatory and spinning equipment is being supplied by the Saco-Lowell Shops, 1 Federal St., Boston, Mass.; looms by the Draper Corp., Hopedale, Mass., and humidifiers by the American Moltening Co., 120 Franklin, Boston, Mass.*

Ga., Elberton—Elberton Cotton mills reported will change dye house into bleaching and finishing plant.

Ga., Griffin—Griffin Knitting Mills, capital \$150,000, incorporated; J. W. Gresham, J. A. Evans.

Ga., La Grange—Hillside Cotton Mills reported will install new equipment in opening room.

Ga., Manchester—Manchester Cotton Mills reported making improvements, including 80x70 brick addition to warehouse, enlarging reservoir, installation of five 250 h.p. boilers, Barber-Colman machinery to replace old spoolers and warpers, Parks-Cramer humidifying system and new lighting system.

Ga., Thomaston—Martha Mills reported will install 38 Saco-Lowell high speed twisters.

N. C., Albemarle—Wiscasset Mills Co. reported awarded contract to D. A. Holbrooks for 110x110 ft. 1-story brick addition; J. E. Sirrine & Co., Engrs., Greenville.

N. C., Conover—Yount Cotton Mills will rebuild plant damaged by storm at loss of \$75,000.

N. C., Mount Airy—Mount Airy Knitting Co., capital \$100,000, incorporated; W. E. Lindsay, Sec., has building for mill.*

Tenn., Chattanooga—Champion Knitting Mills, Main St., erect 2-story hosiery mill; Rogers and Leventhal, Builders.

Tenn., Knoxville—Standard Knitting Mill, Edward J. McMillan, Washington and Mitchell Sts., plans constructing warehouse addition, 180x100 ft.; 3 stories; reinforced concrete; cost \$100,000.

Tenn., Springfield—Arch Cash, Henderson Apts., Knoxville, Tenn., reported acquired interest in Springfield Woolen Mills.

Tex., Sherman—Pool Knitting Co., Carl Pool, Pres., reported to construct extension to hosiery mill.

CONSTRUCTION DEPARTMENT

Water Works

Large sums are being expended for water-works in connection with Land Development operations. Details will be found under that classification.

Ala., Albertville—Alabama Water Co., American Trust Bldg., Birmingham, will install additional fire hydrants.

Ala., Goodwater—City plans installing \$20,000 water-works system. See Financial News—Bond Issues Proposed.

Ark., Fort Smith—City, Thomas H. Ward, Commissioner, plans installing new pumping unit; Wynkoop Kiersted, Jr., Consit. Engr., 614 Interstate Bldg.

Fla., Daytona Beach—City plans issuing \$100,000 bonds for water works extensions; Walter A. Richards, City Mgr.

Fla., Sebring—City, William E. Parrish, Mayor, plans \$20,000 water works extensions.

Ga., Atlanta—City Council Water Committee, Alderman Claude Ashley, Chmn., approved bids from U. S. Cast Iron & Pipe Co. for pipe and Rensselaer Valve Co., Troy, N. Y., for valves for 30-in. water main to be laid in northern section; W. Zode Smith, Supt. Water Works.

Ga., Macon—City let contract to Rust Engineering Co., 1025 Woodward Bldg., Birmingham, Ala., for extension to power house, 200x66 ft., perforated radial brick chimney, including concrete foundations; install new section of breeching from boilers to chimney; Babcock & Wilcox Co., Candler Bldg., Atlanta, has contract for 500-h.p. boiler.*

Miss., Gulfport—City has \$60,000 available for water works improvements. See Financial News—Bond Issues Proposed.

Miss., Heidelberg—City granted franchise to City State Investment Co. to erect ice plant, water works and electric light plant; cost \$75,000; will supply Sabdersville, Vossburg, Stafford Springs and Heidelberg.*

Mo., Branson—City plans water-works system; Alexander Engineering Co., Engrs., 517 Woodruff Bldg., Springfield.*

Mo., Crane—City let contract to I. F. Plummer, Inc., Springfield, for pumping plant from deep well, Downey pump, electric motor, 12,000-gal. elevated tank, 100,000-gal. concrete reservoir; Keystone Driller Co., 12th and Illinois Sts., Joplin, also has contract; Russell & Axon, Engrs., McDaniel Bldg., Springfield.*

Fla., Hialeah—City plans expending \$100,000 for laying water mains and fire hydrants. See Financial News—Bond Issues Proposed.

Mo., Kirkwood—City voted \$200,000 bonds for water and electric light expansion. Address The Mayor.*

Mo., Versailles—City retained Benham Engineering Co., Consit. Engrs., 512 Gumbel Bldg., Kansas City, for sanitary sewer and water works improvements.

N. C., Henderson—City purchased private water system for \$190,000.

N. C., Lincolnton—City, Mayor Rudisill, plans expending \$18,000 for water improvements.

N. C., Southport—See Sewer Construction.

Okla., Broken Arrow—City plans water-works improvements; Wood & Witten, Consit. Engrs., Tulsa.

Okla., Lima—City plans water-works system; Gantt-Baker Co., Engrs., 1116 W. Main St., Oklahoma City.

Okla., Muskogee—A. Davis Construction Co., Medical Arts Bldg., Oklahoma City, has contract at about \$300,000 for dam in connection with water works.

Okla., Okeene—City let contract to Brown Construction Co., 412 E. Logan Ave., Guthrie, for extension of water works system, cost \$10,000; 8300 ft. 4, 6 and 8 in. sand cast pipe; V. V. Long Engineering Co., Engrs., 1300 Colcord Bldg., Oklahoma City.*

Okla., Okmulgee—W. E. Callahan, St. Louis, Mo., reported has contract for pipe line; W. C. Hallock, Engr.

Okla., Sallisaw—City plans water-works system; Gantt-Baker Co., Engrs., 1116 W. Main St., Oklahoma City.

S. C., Beaufort—Edisto Public Service Co., Denmark, will extend water system.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Manufacturers Record

FIRE DAMAGE

Tenn., Kingsport—City plans extension of water line into Cedar View addition. Address The Mayor.

Tex., Canton—City has \$25,000 available for water works improvements.

Tex., Dallas—Floyd & Lochridge, 519 Wilson St., Engrs., for water works and sewers in S. Dallas; cost \$70,000.

Tex., Fort Worth—City, O. E. Carr, Mgr., plans constructing \$400,000 conduit from Lake Worth to pumping station on West Seventh St.; capacity 40,000,000 gals. daily.*

Tex., Houston—Charles K. Horton, 2202 Clay St., low bidder for 12-in. water mains on Elgin and Live Oak Sts. and for sanitary sewer on McKinney St.; Pfieffer Construction Co. for sanitary sewers on Dowling St.; Standard Construction Co., 337 Humble Bldg., has contract at \$180,000 for 15,000,000-gal. water reservoir; Southwestern Construction Co., West Bldg., at \$96,900 for central water works building.*

Tex., Marlin—City, Levi Goodrich, Supt., Water-Works, plans expansion of water-works.

Tex., Nederland—M. Griffing O'Neill of Municipal Engineering Corp., Athletic Club Bldg., Dallas, made preliminary survey for water and sewer system; cost \$200,000.

Tex., Nordheim—C. E. Bramlett reported has contract for installing distribution system; Pittsburgh-Des Moines Steel Co., Praetorian Bldg., for tank; National Cast Iron Pipe Co., Santa Fe Bldg., both Dallas, for pipe; L. S. Valley Co., Second National Bank Bldg., Houston, for compressors, pumps and motors; Terrell Bartlett, Engrs., Calcasieu Bldg., San Antonio.*

Tex., Stanton—Martin County Valley View Water Control and Improvement District No. 1, W. H. Clements, Pres., receives bids August 2 for furnishing equipment and labor for water-works. (See Machinery Wanted—Water Works.)

Tex., Vernon—City, A. H. Hall, Sec., has \$40,000 available for water works extensions. See Financial News—Bond Issues Proposed.

Va., Arlington—Arlington County will probably appoint Asa E. Phillips, 2400 Wyoming Ave., N. W., Washington, D. C., as engineer for installation of water works.*

Va., Lynchburg—City Council appropriated \$22,500 for standpipe and electrically driven pumps to serve Fort Hill and Westover Heights.

Va., Petersburg—Virginia Electric & Power Co., Richmond, will probably rebuild dam damaged by storm; expend about \$50,000.

W. Va., Aldridge (Mall Charles Town)—Baltimore & Ohio R. R. Co. erecting water station, including 50,000-gal. tank; E. G. Lane, Engr., Baltimore, Md.

W. Va., Williamson—Virginia Engineering Co., 1102 Jefferson Ave., Newport News, Va., has contract for filtration plant; H. C. Brooks Co., Martinsburg, has contract for pipe distribution system; Burgess & Niple, Engrs., Columbus, Ohio.*

Woodworking Plants

Ga., Savannah—Southeastern Manufacturing Co., capital \$200,000, incorporated; Gordon L. Groover, V. B. Jenkins; acquired old plant of South Atlantic Casket Co. on Montgomery St.; manufacture woodwork specializing in caskets.*

Ia., Willets—Flooring—Willets Wood Products Co., J. F. McIntyre, Pres., contemplating installing 2 ualt hardwood flooring plant.

Md., Baltimore—Furniture—Levenson & Zenith, Howard and Ostend Sts., having plans made for 2-story addition, 135x60 ft., increasing floor space by 50 per cent.

Md., Thurmont—The W. Va. and Md. Mfg. Co., H. H. Rennix, Gen. Mgr., will probably install additional equipment to manufacture wood spikes for railroads. (See Machinery Wanted—Woodworking Machinery.)

Miss., Monticello—Monticello Veneer Co., incorporated; C. D. Rhymes, Monticello; Mrs. S. S. Rhymes, Brookhaven.

N. C., Belhaven—Belhaven Stave Co., capital \$100,000, incorporated; U. W. Tarkington, L. B. Combs.

Tex., Houston—Huttig Sash & Door Co. of Texas, branch of Huttig Sash & Door Co., 1100 S. Van Deventer Ave., St. Louis, Mo., purchased plant of Carothers Sash & Door Co., 2015 Congress Ave.; will equip with modern machinery for manufacture of doors, sash, molding, etc.*

Tex., Houston—Jumonville Furniture Co., capital \$10,000, incorporated; Leonce and Walter Jumonville.

Ala., Birmingham—Warehouse and picker and card rooms at Strowd-Holcombe Cotton Mills, 1700 Vanderbilt Rd.; loss \$25,000.

Ala., Sheffield—Building occupied by United Realty Co., Sanford Coleman Agency, Bain Bros., etc.; loss \$25,000.

Ala., Summerfield—Alabama Stave Co.'s kiln; loss \$10,000; E. A. Weber, Supt.

Ala., Tuscaloosa—Central Iron & Coal Co.'s supply house at Holt; loss about \$50,000.

Fla., Fort Myers—Seaboard Air Line R. R. bridge across Caloosahatchee River at Fort Myers. Address W. D. Fauchette, Ch. Engr., Savannah, Ga.

Fla., Fort Myers—Warehouse and office of Collier Line, J. E. Shipley, Traffic Mgr.

Fla., Tampa—Seamen's Institute, T. B. Leach, Supt.; Todd & Co.'s building, 400 Arbor Ave.; R. E. Jones, Gen. Mgr.; loss \$15,000 to \$25,000.

Fla., West Palm Beach—Exchange Fruit and Produce Co.'s store, Geo. Koutroulakis, Prop., loss \$25,000; Earl Wright's building, loss \$12,000.

Ga., Atlanta—Pi Kappa Alpha Fraternity House at Emory University, owned by W. D. Thomson.

Ky., Lexington—W. M. Harney's store and residence, 164 Carlisle Ave.

Ky., Louisville—C. P. Dodd & Co.'s grain elevator, 1506 W. Kentucky St.; loss \$20,000.

Md., Elkton—Building on W. High St. occupied by Cleaves Printing Co.; loss \$80,000; owned by Elkton Realty Co.

Md., Frederick—Bruce F. Kepler's residence near Petersville, owned by Mrs. Annie Kepler; loss \$15,000.

Miss., Edwards—Redfield's store.

Mo., Sedalia—Wilcox & McFarland Drug Co.'s store; loss \$40,000.

N. C., Concord—Cabarrus County Fair Assn.'s stables; loss \$12,000.

N. C., Statesville—C. H. Leber's store near Statesville; loss \$10,000.

N. C., Thomasville—Mrs. Cal Welborn's barn.

Okla., Hugo—Residence of W. L. Schooler, Editor, Hugo Daily News.

Okla., Wewoka—Magnolia Petroleum Co.'s 55,000 gal. oil tank; loss \$125,000.

S. C., Bishopville—W. E. Stafford's store; Dr. A. C. Baskin's building; H. W. Woodward's building, Schneider Chain Stores, Parrotts' millinery store; loss \$50,000.

S. C., Ebenezer—Gin and grist mill owned by B. H. Matthews; loss \$10,000.

S. C., Spartanburg—South Carolina Gas and Electric Co.'s steam-electric plant, main office Spartanburg; loss \$100,000.

Tenn., Dyersburg—Arthur Ozmont feed barn and 4 dwellings, all owned by E. M. King; loss \$23,000.

Tenn., Hartsville—Tandy Stubblefield's residence, Hall Town Rd.; loss \$10,000.

Tex., Bryan—Geo. Stephen's residence, W. 26th St.; loss \$15,000.

Tex., Dallas—Building of American Iron & Metal Co., Inc., M. Feldman, Gen. Mgr., 2215 Latimer St., South Dallas; loss \$10,000.

Tex., Marshall—Marshall Mill & Elevator Co.'s warehouses; loss \$25,000.

Tex., Weatherford—Quick Service Garage, loss \$25,000; building owned by John W. Jones of Mineral Wells.

Va., Mineral—Wallace Graves' store; loss \$46,000.

Va., Richmond—Building occupied by Hardwood Brothers, Inc., at 1009 E. Canal St.; temporary headquarters in Spotless Co. Bldg.

Damaged by Storm

N. C., Conover—Yount Cotton Mills' buildings; loss \$75,000.

Tex., Lambert—Residence on F. O. Garrison farm, near Lambert, occupied by Walter Chamberlain.

Tex., Weiland—B. J. McAffey's residence; church.

Tex., Zion Hill—Bert Brownlee's residence, near Zion Hill.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Ala., Ensley—Ensley Lodge No. 789, B. P. O. E., L. A. Ranson, member, Bldg. Comm., erect \$35,000 clubhouse; brick, 2 stories; raze present building.

Md., Baltimore—Santa Maria Council, K. of C., Jos. G. Loefler, Grand Knight, 1438 N. Gay St., plans \$200,000 building, Elwood and Eastern Ave.; auditorium, dance hall, showers, pool room, bowling alleys, etc.

Miss., Clarksdale—Knights of Pythias, Atty. John Crisler, Interested, plans \$10,000 clubhouse, Moon Lake.

N. C., Winston-Salem—Young Men's Christian Association, Chas. N. Norfleet, Chmn., Bldg. Comm., probably ask for bids in about one week for 4-story and basement building, Spruce St. near Fourth St.; cost \$425,000; swimming pool, gymnasium, auxiliary gymnasium, 100 dormitory rooms; Macklin & Raught, Archts.; Sherman W. Dean, Consit. Archt., care Bldg. Bureau, International Comm., Y. M. C. A., 347 Madison Ave., New York.*

Ola., Sand Springs—Salvation Army of Oklahoma, care Major Louis C. Bennett, 1915 W. 14th St., Oklahoma City, having plans drawn by A. M. Atkinson, Mid-Continent Bldg., Tulsa, for \$55,000 girls' home; brick, stone and concrete, 2 stories and basement.*

Tex., Ennis—Grand Lodge, I. O. O. F., W. H. Wray, Treas., Board of Trustees, 201 North Texas Bldg., Dallas, having plans drawn by Lang & Witchell, American Exchange Bank Bldg., Dallas, for \$150,000 home for aged; accommodate 135.*

Tex., San Antonio—Triune Lodge, care Chas. Endress, has low bid at \$19,394 from E. R. Brashear, 223 Montrose St., for building; plumbing bid, Woodlawn Plumbing Co., 2717 N. Flores St., \$919; wiring, A. H. Shafer, 418 N. St. Marys St., \$773; L. Harrington & Co., Archts.-Engrs., Builders Exchange Bldg.

Va., East Radford—Harvey-Howe Post No. 30, American Legion, J. H. Eagle, Pres., erect building; 45x90 ft., swimming pool, lounge, auditorium seat 1000 to 1200, etc.; Will Nye, Archt.

Va., Richmond—Henrico Union Lodge No. 130, A. F. & A. M., Crawford C. Crouch, Masonic Temple Bldg., Chmn., Bldg. Comm., erect \$65,000 temple, 25th and Leigh Sts.; 3 stories; gymnasium, dining and reading rooms, auditorium seat 500, etc.

Bank and Office

Ala., Sheffield—Medical Arts Building Co., care Dr. E. T. Newson, plans brick, stone and terra cotta Medical Arts Bldg.; 3 stories, 50-ft. front; Paul Hoffport, Archt.

D. C., Tacoma Park, Washington—Tacoma Park Bank, W. K. Hill, Chmn., Bldg. Comm., erect \$150,000 building, Mellon and Carroll Sts.; limestone and steel; Tilghman-Myer Co., Archt.-Engr., Allentown, Pa.

Fla., Daytona Beach—Merchants Bank & Trust Co. enlarge, remodel and install new fixtures and vaults in bank building, S. Beach St.; cost \$250,000; W. D. Harper & Co., Archts., 126 Volusia Ave.; A. Van De Vord, Contr., 109 Palmetto Ave.; fixtures, H. M. Wade Manufacturing Co., S. Graham St., Charlotte, N. C.; Diebold vaults, Franz Safe & Lock Co., 27 S. Hogan St., Jacksonville, Fla.

Fla., Sanford—Chamber of Commerce plans building.

Ky., Louisville—J. J. B. Hilliard & Son, 130 S. Fifth St., has \$60,000 permit for building, 419 W. Jefferson St.

La., Bogalusa—Great Southern Lumber Co. alter and erect addition to office building; 2 stories, frame and stucco, composition roof, wood floor, marble work, etc.; Rathbone de Buys, Archt.; Juan G. Landry and Albert L. Theard, Asso. Archts., all Hibernia Bldg., New Orleans; bids opened July 19.

La., Hammond—Hammond State Bank remodel present building and erect brick and stone addition; cost \$50,000; 2 stories, 25x100 ft.; Louisiana architects to submit competitive sketches in about 2 weeks.

La., New Orleans—Marine Bank & Trust Co., 219 Carondelet St., have plans ready in few days for bids on branch bank, Carrollton Ave. and Oak St.; brick and stone trim, 1 story and mezzanine, marble and tile floors,

composition roof, marble cage fronts, plate glass windows, fixtures; Jones, Roessle & Olschner, Archts., Maison-Blanche Bldg.*

La., New Orleans—Latter & Blum, 333 Carondelet St., have low bid at \$28,000 from R. P. Farnsworth & Co., Canal-Commercial Bldg., for remodeling 4-story building, St. Charles and Union Sts.; stores on first floor, office above; separate bids for wiring, heating, plumbing, elevators and lighting fixtures; Weiss & Dreyfous, Archts., Maison Blanche Bldg.

Miss., Jackson—Capitol-First Realty Co., Paul Chambers, Pres., Capitol Natl. Bank Bldg., erect \$428,000 store and office building, Pearl and S. West Sts.; face brick, terra cotta trim, fireproof, 10 stories; Claude H. Lindsay, Archt., Lamar Life Bldg.; plans ready latter part August.*

Mo., Kansas City—Schoenberg Realty & Investment Co., 607 Security Bldg., reported planning 15-story building, Tenth and Main Sts.; tentative plans by Fred E. McIlvain, 1001 Orear-Leslie Bldg.

Mo., Kansas City—B. L. Hoffman, care B. L. Hoffman Investment & Construction Co., 223 E. Ninth St., erect 6-story basement and sub-basement, fireproof store and office building, 12th and Oak Sts.; foundation to permit additional stories; cost \$180,000 to \$200,000; 6 stores on first floor; plans by Hans von Unworth, Consit. Architectural Engr., 705 Finance Bldg.

N. C., Charlotte—Citizens Savings & Loan Co., Selwyn Hotel Bldg., receiving bids at office Lockwood, Greene & Co., Archts., Johnston Bldg., for building; 1 story, 30x100 ft., 25 ft. high, basement, mezzanine, vault; let contract about 30 days.

N. C., Goldsboro—National Bank of Goldsboro, G. A. Norwood, Pres., remodel interior of building; cost \$25,000.

Ola., Oklahoma City—Oklahoma Gas & Electric Co., Insurance Bldg., reported erect \$350,000 office building, Harvey St.; reinforced concrete and brick, 8 stories, 80x140 ft.; Bylesby Engineering Co. Engr., 23 1S. LaSalle St., Chicago, Ill.

Ola., Tulsa—H. C. Tyrell, 1402 S. Boulder St., plans office building, Fifth St. and Boulder Ave.; cost \$800,000 or more, 10 stories or higher.

Tenn., Memphis—C. F. Farnsworth, Vice-Pres., First National Bank, has low bid at \$387,000 and \$44,000 for partitions from H. J. Gilbertson Construction Co., Graham Bldg.; E. L. Harrison, Archt., 1501 Fidelity Bank Bldg.*

Tex., Mercedes—Hidalgo County State Bank erect \$100,000 bank and office building; brick and stone, 2 stories, 50x160 ft.; St. Louis Bank Equipment Co., Archt., 2604 S. Jefferson St., St. Louis, Mo.; plans completed about August 1.

Tex., San Angelo—San Angelo National Bank, M. L. Mertz, Pres., erect \$250,000 to \$300,000 bank and office building.

Churches

Ala., Birmingham—East Birmingham M. E. Church, 1001 Cahaba St., erect face and common brick and stone building; 2 stories, 64x118 ft., art glass, composition roof, wood floors; Turner & McPherson, Archts., 1203 American Trust Bldg.; about ready for bids.

Ala., Birmingham—West End Baptist Church erect \$40,000 brick and hollow tile building, Tuscaloosa Ave. and Hawkins St.; 1 story, 80x120 ft., asbestos roof, heating; J. F. Adams, Contr., 901 Cotton Ave.

Ala., Demopolis—Methodist Episcopal Church, South, Rev. H. W. Rice, Pastor, receives bids July 23 (lately noted July 15) for brick building; 3 stories, 40x112 ft., wood, tile and cement floors, concrete foundation, composition roof, excavate about 30 ft. deep; Alsop & Callanan, Archts., 524 Dormon Bldg., Memphis, Tenn. Address Rev. Mr. Rice. See Machinery Wanted.*

Ala., Montgomery—Spanish Hebrew Congregation, A. France, Chmn., Bldg. Comm., Highland Ave., receives bids Aug. 1 for brick synagogue, 116 Sayre St.; 1 story, 40x60 ft. oak doors, brick foundation, terra cotta tile roof, cost \$20,000. Address Richard Ryan, Archt., 809 Monroe St. See Machinery Wanted.*

Ala., Tuscaloosa—Christian Church plans Colonial building, Queen City and University

Aves.; A. F. Hansen, Archt., Shrine Bldg., Memphis, Tenn.

Ala., Wetumpka—Rev. I. H. Rose receives bids Aug. 15 for brick veneer church; cost \$12,000; 1 story, 32x82 ft., oak floors, brick foundation, composition shingle roof; Richard Ryan, Archt., 800 Monroe St., Montgomery. Address Owner. See Machinery Wanted.

Fla., Lutz—United Brethren Church, John A. Toy, Supt., erect \$15,000 building.

Ga., Abbeville—Cannonville Baptist Church erect building. Address The Pastor.

Ky., Louisville—St. Marys Church has \$45,000 permit for building, 2824 Frankfort Ave. Address The Pastor.

La., Marion—Baptist Church plans \$20,000 brick building. Address The Pastor.

Md., Baltimore—Baltimore Monthly Meeting of Friends erect \$20,000 brick building, Park Ave. and Reservoir St.; 2 stories, 72x31 ft., slate roof, steam heat; A. C. Leah, Archt., 411 N. Charles St.

Miss., McComb—Centenary M. E. Church, South, W. T. Denman, member, Bldg. Comm., plans pipe organ.

Mo., Jefferson City—First Presbyterian Church, 418 Madison St., receives bids Aug. 5 for brick building; cost \$100,000, probably Cartage stone trim, 3 stories, 100x87 ft., stone and concrete foundation; Kennerly & Stiegelmeyer, Archts., Title Guaranty Bldg., St. Louis.*

Mo., Paris—Methodist Church remodel building; cost \$10,000. Address The Pastor.

Mo., Springfield—Oakland Church plans building, E. Division Street Rd. Address The Pastor.

N. C., Durham—Gethsemane Baptist Church, Pine St., Rev. A. R. Van Landingham, Pastor, enlarge building.

N. C., Greensboro—First Presbyterian Church plans \$500,000 building; Hobart Upjohn, Archt., Grand Central Terminal, New York; Harry Barton, Asso. Archt.

Ola., Perry—Baptist Church, 710 H St., erect \$25,000 building, Seventh and F Sts.; reinforced concrete and brick, 2½ stories, 48x15 ft., center 40x60 ft., and back 65x20 ft., concrete and oak floors, concrete foundation, tin or zinc roof; furnishings, equipment, etc., \$5000; Hawk & Parr, Archts., Cotton Exchange Bldg., Oklahoma City; open bids about August 1. Address Orr Hall, Exchange Bank. See Machinery Wanted.

Tenn., Cookeville—Church of the Nazarene, Rev. W. S. Turner, Pastor, erect building.

Tenn., Dyersburg—Baptist Church plans \$75,000 brick building; 3 stories, 120x110 ft.; R. H. Hunt Co., Archt., James Bldg., Chattanooga. Address E. E. Rucker, Chmn., Bldg. Comm.

Tenn., Greenback—Presbyterian Church, Rev. C. H. Everett, Pastor, plans to enlarge present structure or erect new brick building.

Tenn., Nashville—First Lutheran Church, Rev. I. W. Gernert, Pastor, plans building, Eighth Ave., South and McGavock St.

Tex., Dallas—Highland Park Presbyterian Church, recently organized, plans building. Address The Pastor.

Tex., McKinney—First Baptist Church has plans completed for \$40,000 brick and concrete building; 2 stories and basement, 62x97 ft.; Lindsey & Kilmer, Archts., Greenville. See Machinery Wanted.*

Tex., Waxahachie—First Methodist Church selected T. J. Galbraith, 517 Slaughter Bldg., Dallas, as architect for brick and stone Sunday school; 3 stories, accommodate 1500.

City and County

Ala., Birmingham—City, John Taylor, Commr. of Public Safety, Martin Bldg., erect fire station, 4120 Avenue B, and one at Cotton Ave. and Broad St., after plans by Geo. P. Turner, 1203 American Trust Bldg.; brick, 2 stories, tar and gravel and composition roof; city also erect \$190,000 central garage and fire station, 19th St. and Fourth Ave. S.; brick, 2 stories.*

Fla., Bartow—Polk County Board of Commls., J. D. Rawlerson, Clk., receives bids July 24 for furnishing and setting tile on all masonry walls surrounding cell block at jail; also bids same date for setting plumbing fixtures furnished by jail contractor and connecting to supply and waste pipes; specifications at office Board.*

Fla., Bunnell—Flagler County Board of Commls., J. L. Jones, Chmn., receives bids July 26 for 2-story masonry, stucco and stone courthouse; also bids same date for steel vault work; plans and specifications on file at office J. C. Geiger, Clk., and at offices Talley-

CONSTRUCTION DEPARTMENT

Buckley-Talley, 219-29-31 Hartsell Bldg., Lakeland.

Fla., Hialeah—City, E. E. Lucas, Director of Public Safety and Works, authorized \$50,000 bonds for city hall and remodeling police headquarters and central fire station.

Fla., Miami Beach—City Council having plans completed by Martin L. Hampton, Royal Hotel Casino, for \$275,000 city hall, 11th and 12th Sts., and Washington and Drexel Aves.*

Fla., Pompano—City Council erect fire station; 1 story with foundation to permit another story; C. Hobart Sherwood, Archt.; Howard Steitz, Archt., both Pompano and Fort Lauderdale.

Fla., Sebring—City, Wm. F. Parrish, Mayor, votes Sept. 17 on \$235,000 bonds, including \$60,000 for 3-story city hall and \$50,000 for fire station.

Fla., Vernon—Washington County Board of Commrs., T. D. Owens, Chmn., receives bids Aug. 2 for jail and repairs and improvements to courthouse; separate bids on cells and other jail equipment; plans and specifications on file at office Circuit Clk.

Ky., Louisville—Louisville Memorial Auditorium Commission selected Fourth and Kentucky Sts. as site for Soldiers' and Sailors' Memorial Auditorium.

La., Eunice—City, S. Wyble, Mayor, receives bids Aug. 5 for 2-story municipal building; cost \$40,000, 2 stories, 80x100 ft.; Herman J. Duncan, Archt., 120 Murray St., Alexandria.*

La., Hahnville—St. Charles Parish Police Jury receives bids August 6 for alterations and fireproof addition to courthouse; 2 stories, brick, composition roof, plastered interior; cost \$50,000; Wm. R. Burk, Archt., Balter Bldg., New Orleans.*

La., Jena—La Salle Parish Police Jury selected Herman J. Duncan, Alexandria, as architect for \$35,000 jail; 2 stories, reinforced concrete and brick.*

La., Marksville—Avoyelles Parish Police Jury voted \$200,000 bonds for reinforced concrete, brick and stone courthouse.

La., Shreveport—Caddo Parish Police Jury receives bids August 19 for courthouse Milan and Texas Sts.; cost \$1,000,000; Renaissance type, gray and buff limestone, steel concrete and common brick, 8 stories; 2 floors for jail; plans and specifications from Edw. F. Neild, Archt., 1206 City Bank Bldg.*

N. C., Asheville—City Commissioners, John T. Cathey, Mayor, has low bid at \$707,000 from Miller Engineering Corp., Washington, D. C., for city hall; plans to be revised and resubmitted by 3 low bidders and opened July 19; Douglas D. Ellington, Archt., 18½ Wall St., Asheville, and Wabash Bldg., Pittsburgh, Pa.*

N. C., Wilmington—New Hanover County Board of Commrs., Addison Hewlett, Chmn., receives bids July 28 for prison building and alterations and additions to county home; plans and specifications from Lynch & Foard, Archts.*

S. C., Orangeburg—City votes Aug. 17 on \$175,000 city hall bonds. Address City Council.*

Tenn., Ripley—Lauderdale County votes Sept. 10 on \$85,000 courthouse remodeling bonds. Address County Commrs.

Tex., Olney—City, R. E. Myers, Sec., having plans drawn by David S. Castle Co., 701-04 Alexander Bldg., Abilene, for \$40,000 city hall; brick and stone; bonds voted.*

Tex., Palestine—City considers fire station. Address City Council.

Tex., Paducah—Cottle County, J. M. Whately, Judge, plans \$150,000 courthouse, brick, stone and steel; votes July 31 on bonds.

Miss., Collins—Mayor and Board of Aldermen receive bids Aug. 3 for 2-story brick city hall, cost \$10,000; Masonic Temple on second floor.

Dwellings

Ala., Birmingham—Basil Clark erect brick veneer residence, Redmont Park; 2 stories, 56x40 ft., copper clad shingle roof, tile bath, hardwood floors, steam heat; C. H. McCauley, Archt., 709-11 Jackson Bldg.; bids in.

Ala., Dothan—First Baptist Church, Dr. H. C. Bass, Pastor, erect \$125,000 building; face brick and Indiana limestone, 3 stories, mezzanine and basement, 100x165 ft., built-up roof, hot air heat; concrete basement; W. N. Pugin, Archt., 149 Sixth Ave. N., Nashville, Tenn.; receiving bids.

Ala., Montgomery—Chas. Harris, 710 Federal Ave., receives bids Aug. 25 for brick veneer residence; cost \$10,000; 1 story, 38x54

ft., composition shingle roof; Richard Ryan, Archt., 800 Monroe St. Address Owner. See Machinery Wanted.*

Ala., Montgomery—M. S. Katz, 710 Madison St., receives bids Aug. 10 for brick veneer residence, 1020 S. McDonough St.; 1 story, 32x63 ft., white oak floor, brick foundation, composition roof, cost \$12,000; Richard Ryan, Archt., 800 Monroe St. Address Owner. See Machinery Wanted.*

Ark., Fayetteville—Jas. A. Dinwiddie, Archt., advises proposed \$20,000 residence for D. W. Owens postponed for some time.*

Ark., Pine Bluff—H. Brangman, 1620 W. Fifth St., erect \$20,000 residence, Sixth Ave.; Durward Kyle, Archt., 417 Citizens Bldg.

Ark., Pine Bluff—W. N. Trulock, Jr., 402 W. Fifth St., erect residence.

D. C., Washington—H. C. Ball Construction Co., 1406 G St. N. W., erect 14 semi-detached dwellings, 43rd and Brandywine Sts. N. W.; 2 stories, 18x32 ft., brick; C. West, Archt., 817 Fourteenth St. N. W.

Fla., Cocoa—Presbyterian Church erect \$10,000 manse; concrete tile and stucco, Cuban tile roof, 2 stories; Richard W. Rummeil, Jr., Archt., Courtenay.

Ga., Atlanta—Mrs. Gussie B. Ivey erect 2 dwellings, 804-08 Argonne Ave.; 1 story; total cost \$11,000.

Ga., Atlanta—C. B. Howell erect 4 frame dwellings, 787-01-05-09 Helena St.; 1 story; total cost \$13,000.

Ga., Atlanta—John W. Buettas, member, B. & W. Construction Co., 720 Cass St., Chicago, Ill., reported purchased tract, Pace's Ferry Rd.; considers erecting residence.

Ga., Atlanta—Peacock Realty Co., McGlawn-Brown Bldg., erect \$10,000 duplex, 215 Morningside Drive; 2 stories, brick veneer.

Ga., Atlanta—Mrs. A. H. Lathan, 214 Columbia St., erect \$13,000 residence, 110 Westminster Drive; 2 stories, frame.

Ga., Atlanta—Mac E. Norton erect \$11,900 residence, 47 Pelham Rd.; 2 stories, brick veneer.

Ky., Louisville—Luther A. Ray erect 4 dwellings, 3715-21 S. Eighth St.; cost \$3000 each.

La., New Orleans—W. Aronson, 3115 Magazine St., erect 2 duplexes, Miro St. near Robert St.; 2 stories, slate roof; total cost \$10,000.

La., New Orleans—Arthur Thompson erect frame and stucco duplex, Vincennes Place; 2 stories, tile roof and baths, tile and oak floors, Arcola heating; Lockett & Chachere, Archts. Title-Guarantee Bldg.; plans ready for bids about 10 days.

La., New Orleans—W. Aronson, 3115 Magazine St., erect 2 duplexes, Miro and Robert Sts.; total cost \$10,000.

La., New Orleans—Jack Dicharry, care American Mattress Works, 3209 Perdido St., plans residence, Fontainebleau Drive near Lopez St.

La., New Orleans—C. J. Rocquin, 315 Millaudon St., plans 3 bungalows, Millaudon St. near Commercial St.

La., New Orleans—Leo Sanchez alter residence, Seventh St.; Theo. L. Perrier, Archt., 310 Carondelet St., ready for bids in few days.

La., New Orleans—Bertalvin Realty Co. erect 2 duplexes, Soniat and Willow Sts.; total cost \$16,000.

La., New Orleans—E. M. Dye, 1923 Elysian Fields Ave., erect frame and stucco residence, S. Claiborne Ave. and Audubon St.; R. S. Soule, Archt., 429 Carondelet St.; bids opened July 18.

La., New Orleans—Julius Steger, 4024 Saratoga St., plans residence, Audubon Blvd. and S. Claiborne Ave.; work start about 30 days.

La., New Orleans—Louis Mounican receiving bids for frame and stucco residence, Fontainebleau Drive; 2 stories and basement, tile roof and baths, hardwood and tile floors, steam heat; Theo. L. Perrier, Archt., 310 Carondelet St.*

La., New Orleans—Dr. Hilliard Miller, Hibernia Bldg., plans 2-story frame and stucco residence, Walnut St. opp. Audubon Park

La., Opelousas—Adolphe Jacobs receives bids July 30 for brick veneer residence; 2 stories, cost \$15,000; Herman J. Duncan, Archt., 120 Murray St., Alexandria.

Md., Baltimore—Beverly Hills Corp., 3826 Arabia Ave., erect 10 concrete dwellings, S. W. side Beverly Rd., near Wether Ave.; 2 stories; total cost \$42,000.

Md., Baltimore—W. L. Cooney, 2930 St. Paul St., erect \$48,000 residence and garage, Charlote Place; 2½ stories, stucco.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Manufacturers Record

Md., Baltimore—Philip S. Morgan, Cedar Ave. and 39th St. erect 5 English type dwellings, Cedar Ave.; stucco on cinder block, 3 stories, built-in porches, 3 baths; Cyril H. Hebrank, Archt., 3 E. Lexington St.; also erect store and several dwellings and garages, N. W. cor. Hollins St. and Calverton Rd.

Md., Baltimore—Rochester Home Building Co., 36th and Frisby Sts., erect 17 brick dwellings, 700 block E. 36th and Melville Sts.; 2 stories; total cost \$60,000.

Md., Baltimore—Robt. Seff, 231 St. Paul Pl., erect 5 brick dwellings, 24th St. and Guilford Ave.; 2 stories; total cost \$15,000.

Md., Baltimore—John J. Dubbelde, Elgin Ave. and Rosedale St., erect 4 dwellings, Gwynns Falls Pkwy.; total cost \$30,000.

Md., Baltimore—Frank Novak Realty Co., Thirty-third St., erect 46 brick dwellings, 2800 block Glenwood Ave.; also 4 dwellings and garages, 1512-18 E. 33rd St.; 2 stories; total cost \$132,000; owner builds.

Md., Baltimore—Henry S. Middendorf, Keyser Bldg., plans residence.

Md., Baltimore—Rochester Home Building Co., 36th and Frisby Sts., erect 17 brick dwellings, 700 blocks E. 36th and Melville Sts.; 2 stories; total cost \$69,000.

Md., Baltimore—Robt. Seff, 231 St. Paul Place, erect 5 brick dwellings, S. W. cor. 24th St. and Guilford Ave.; 2 stories; total cost \$15,000.

Mo., Clayton, St. Louis—I. D. Kline, Cella Rd., erect \$20,000 brick addition to residence, Cella sub-division; 41x28 ft.

Mo., Joplin—Fred W. Board, Connor Hotel, plan residence, N. Moffet Ave.

Mo., Kansas City—Home Investment Co., 314 Commerce Bldg., erect 2 dwellings, 721-21 Bellevue St.; total cost \$10,000.

Mo., Kansas City—Hudgeons Building Co., erect 3 dwellings, 6660-64-66 the Paseo; total cost \$12,000.

Mo., Kansas City—Wyeth & Jordan Realty Co., erect 5 dwellings, 4000-04, 4100-04-08 W. 51st Street Terrace; total cost \$10,000.

Mo., Kansas City—Helfin Building Co., erect \$22,000 dwelling, 4421 Prospect Ave.

Mo., Kansas City—Mason Brown and W. S. Fleming erect 3 bungalows, Jefferson and Steptoe Sts.

Mo., Kansas City—Abernathy Investment Co., 1106 Waldheim Bldg., erect 3 dwellings, 3840-44-46 W. 74th St.; total cost \$10,000.

Mo., Kansas City—R. L. Falkenberg, Sixty-third and Brookside Blvd., erect \$10,000 residence, 631 W. 67th St.

Mo., Kansas City—Robt. L. Winslow, care T. H. Mastin & Co., 1907 Grand St., purchased homesite, 68th Street Terrace near 43rd St., Romanelli Gardens.

N. C., Chimney Rock—Yarrow Construction Co., Legal Bldg., Asheville, erect 50 dwellings, Lake Lure; frame, stucco, brick veneer and native stone, English and French types.

N. C., Chimney Rock—C. H. Ward, Director, Chimney Rock Mountain, Inc., 45 N. E. First Ave., Miami, Fla., erect \$20,000 brick Italian villa, Luremont.

N. C., Durham—T. C. Atwood, Mangam St., erect \$15,000 residence, Arnette St.

N. C., Greensboro—C. G. Crevensten, Jefferson Bldg., erect 3 dwellings, Kensington St., Walker Ave. and Sherwood St.; 1-story, brick veneer, composition roof, 6 and 8 rooms; total cost \$22,600.

Okl., Oklahoma City—Victor Mead, 201 No. Robinson St., erect \$10,000 brick veneer dwelling, 513 W. 18th St.

Okl., Tulsa—C. D. Cooper, 2230 N. Denver St., erect \$12,000 residence and garage, 2263 Troost Ave.; 2 stories.

Okl., Tulsa—J. H. McBirney, 515 S. Denver St., erect \$75,000 residence; brick and stone, 2 stories and basement, 60x100 ft.; Elmer Bollot, Archt., 1202 Scarritt Bldg., Kansas City, Mo.; E. W. Sipple, Asso. Archt., 306 Nat. Bank of Commerce Bldg.; bids in.

Tenn., Knoxville—T. F. Hazen, Jr., 619 Market St., erect \$15,000 frame residence, Glenfield Drive; 8 rooms.

Tenn., Memphis—Raymond Anderson erect residence; Geo. Mahan, Jr., Archt., American Bank Bldg., Everett Woods, Asso. Archt., both Memphis, Tenn.

Tenn., Memphis—T. A. Canale, 1433 Poplar St., erect stone residence, East Parkway North, near Poplar Blvd.; tile roof; Geo. Mahan, Jr., Archt., American Bank Bldg.; Everett Woods, Asso. Archt.

Tex., Dallas—C. D. Hutsell, 5831 Mercedes St., erect 2 brick veneer dwellings, 6017-21 Mercedes St.; 2 stories; total cost \$15,500.

Tex., Floresville—Sam'l. Houston erect brick residence; 2 stories, concrete foundation; J. Clyde & Percy W. Williams, Archts., Moore Bldg., San Antonio.

Tex., Fort Worth—Dr. M. J. Bisco, B. Burnett Bldg., erect \$17,500 brick veneer residence, Park Hill Addition.

Tex., Fort Worth—Dr. G. W. Van Halteren, Worth Bldg., erect \$10,000 brick and stucco residence, Arlington Heights Addition.

Tex., Houston—Dr. Paul V. Ledbetter, 2721 Beauchamp St., purchased homesite, River Oaks.

Tex., Houston—Sidney A. Long, Pres.-Mgr., Concrete Products Co., Velasco and Lockhart Oaks, purchased homesite, Avalon Place, River Oaks.

Tex., Houston—L. W. Gabbitt, Chronicle Bldg., erect \$12,000 brick veneer dwelling and garage, 2125 Sunset Blvd.; 9 rooms.

Tex., Houston—H. C. Corley erect 6-room brick veneer bungalow, Southmore; tile roof, built-in features; Chas. P. Jones & Co., Archts., Binz Bldg.

Tex., Houston—M. S. Clark erect 2 dwellings, 1702-06 North Boulevard; 2 stories, 6 rooms, brick veneer and stone; total cost \$24,000.

Tex., Houston—H. H. Fischer, 1711 Austin St., erect \$10,000 residence and garage, 2221 Wentworth St., Riverside Terrace; brick veneer, 12 rooms.

Tex., Mercedes—A. B. George erect 5 stucco dwellings; total cost \$25,000.

Tex., New Braunfels—Dr. A. J. Hinman remodel 2-story stone residence; soon call bids on revised plans; Albaugh & Steinbomer, Architects, 941 Austin St.

Tex., San Antonio—J. I. Dixon, 2701 Buena Vista St., erect \$10,000 residence, Donaldson Ave., Woodlawn Terrace; brick, concrete foundation; Morris & Noonan, Archts.-Engrs., Builders Exchange Bldg.; W. C. Threlkell, Contr., Moore Bldg.

Tex., San Antonio—Dr. John W. Kenney erect \$20,000 addition, Main Ave.

Tex., Wichita Falls—J. A. Fisher, 2400 Tenth St., erect \$60,000 brick and hollow tile residence, Country Club Estates; 2 stories, 44x92 ft., oak and rubber tile floors, green glazed tile roof; Sorey & Vahlberg, Archts., 516 Perkins-Snider Bldg., starting plans.*

W. Va., Weston—Fred F. Bailey erect residence, McGary addition.

W. Va., Weston—Geo. J. Davission erect residence, Center Ave.

W. Va., Weston—Eugene Grant erect residence, Main Ave.

Government and State

Ga., Fort Benning—Constructing Quartermaster, Wm. McK. Scott, Capt., receives bids Aug. 16 for permanent Cuartel Barracks (Section "B," "C" and "D") and utilities; building 1068.10x48 ft., 3 stories and garret, concrete and brick; plans and specifications from Constr. Quartermaster.*

Miss., Purvis—T. W. Cooper, Postmaster, erect brick building for post office and stores; 60x90 ft.

Tex., Waco—State Board of Control, Dr. H. H. Harrington, Chmn., Austin, receives bids July 20 for dining hall and kitchen at Home for Neglected and Dependent Children; fireproof, 1-story; cost \$30,000; Milton W. Scott & Co., Archts., 412½ Franklin Ave.*

Va., Richmond—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., has low bid at \$13,999 from Boyle & Russell, 1001 Grace-American Bldg., for remodeling and enlarging parcel post annex at postoffice.*

Hospitals, Sanitariums, Etc.

Fla., Daytona Beach—Halifax District Hospital Comm., F. J. Niver, Chmn., has low bid at \$537,000 from Southern Ferro Concrete Co., Atlanta, Ga., for \$750,000 hospital; 4 stories, 41x270 ft.; Wilson, Berryman & Kennedy, Archts., Palmetto Bldg., Columbia, S. C.; Stevens & Lee, Consrt. Archts., 45 Newberry St., Boston, Mass.*

Fla., Tarpon Springs—City votes Aug. 16 on \$93,000 bonds, including \$25,000 for hospital. Address Board of Comms.

N. C., Greensboro—Richardson Memorial Hospital for Negroes, Dr. C. W. Banner, Chmn., receives bids Aug. 16 for fireproof hospital, Benbow Drive; cost \$50,000 to \$60,000; 3 stories, concrete and steel or brick; C. C. Hartman, Archt., Jefferson Bldg.*

Oklahoma, Muskogee—Board of Public Affairs, Oklahoma City, erect \$18,000 hospital at

School for Blind; brick, cement floors, English type; Chas. W. Dawson, Archt., Dallas Apts.

S. C., Columbia—Board of Regents, South Carolina State Hospital, R. B. Scarborough, Chmn., receives bids July 27 for brick and reinforced concrete ward building at State Park near Columbia; plans and specifications from Lafaye & Lafaye, Archts.

Tex., Fort Worth—Mrs. W. I. Cook, Albany, erect W. I. Cook Memorial Hospital, North, Lake, Collier and 13th Sts.; fireproof, brick and steel.

Tex., Mercedes—Elks Club reported plans \$25,000 hospital.

Tex., Olney—Dr. Hamilton erect \$35,000 brick and reinforced concrete sanatorium; David S. Castle Co., Archts., 701-04 Alexander Bldg., Abilene.

Hotels and Apartments

Ala., Birmingham—La Salle Development Co., T. H. Joy, Pres., 646 N. Michigan Ave.: F. T. Conley, Treas., 7205 Calumet Ave., both Chicago, Ill., soon start work on \$300,000, 10-story, reinforced concrete, fireproof building containing 48 two and three room efficiency apartments, stores and cafe at 2020 Eleventh Ave. South; plans by Gallup & Joy, 646 N. Michigan Ave., Chicago; Jackson C. Halstead, Asso. Archt. in charge of construction.

Ala., Birmingham—Elm Company has permit to erect \$200,000 apartment house on Highland Ave. between 21st and 22d Sts.

Fla., Jacksonville—Jos. D. Weed, V.-P., Gibbs Gas Engine Co., 26 S. Main St., will erect 16-apartment building, Magnolia and Mary Sts.

Fla., Palatka—Palatka Hotel & Industrial Co., J. E. Bennett, Pres., receives bids Aug. 9 for \$600,000, 11-story hotel; limestone base, brick shaft, terra cotta trim, 2 high-speed elevators; Fred A. Bishop, Archt., 903 Electric Bldg., Richmond, Va.; will also receive bids at same time from hotel operators to lease and operate hotel.*

Fla., St. Petersburg—Bayshore Hotels, Mrs. Dora H. Hayman, Mgr., First St. and Second Ave. S., will erect 25-room, 3-story addition; cost \$12,000.

Fla., Tallahassee—Irvin Gates, Pres.; D. M. Lowry, Sec.-Treas., company organized to erect \$130,000, three-story hotel; furnishings, \$30,000; 68 rooms, 4 store rooms; E. D. Fitchner, Archt.*

Fla., Palmetto—Palmetto Community Hotel Co., Inc., opened bids for erection \$225,600 hotel; Fleisher Engineering & Construction Co., 1529 Grand Central Ave., Tampa, low bidders on general contract; Poe Piping & Heating Co., 168 S. Main St., Greenville, S. C., plumbing and heating; Roy Parker, Bradenton, electric work; plans by Fehl & Southwell, 105½ Zack St., Tampa; include 6 stories, 50x105 ft., Italian Renaissance type, 76 rooms, reinforced concrete frame, hollow tile partitions; equipment and furnishings, \$60,000; Hubbell & Van Natta, Engrs., Bona Allen Bldg., Atlanta, Ga.*

Fla., Tampa—P. Cahiguri will erect \$10,000 apartment building, 15th Ave.

Fla., Vero Beach—C. B. Gleckler, P. O. Box 1461, will erect \$30,000 apartment building, Royal Palm Drive and Leon Ave.; 2 stories, 42x64 ft., tile and stucco, oak floors, concrete foundation, equipment and furnishings, \$6000; Garnes & Flack, Archts. See Machinery Wanted.*

Ga., Atlanta—Martin E. Dunbar has permit to erect 2-story stone and tile apartment house, 100 Montgomery Perry drive.

Ga., Dublin—S. E. Odum of Odum Realty Co., Georgia Casualty Bldg., Macon, has plans in progress by C. W. Shelvertown, Grand Bldg., Macon, for \$100,000, 60-room hotel building, Academy St. and Bellevue Ave.; Gothic design, brick and hollow tile.*

Ga., Valdosta—Burton Lee Mank, Inc., owner and developer of Twin Lakes, will construct resort hotel.*

La., Baton Rouge—Thos. W. Dutton, Wieck Bldg., reported interested Minnesota people in erection 12-story hotel; cost \$1,000,000.

Miss., Pascagoula—Shrouds-Stoner Co., Inc., Archts., Engrs., Room 12, Gulf & Ship Island Bldg., Gulfport, receives bids until Aug. 5 for \$200,000 commercial hotel and resort for Pascagoula Hotel Co., Washington and Beach Sts.; 4 stories, 200x200 ft., reinforced concrete skeleton, stucco on hollow tile curtain walls, concrete joist floors, Spanish tile roof on steel trusses, quarry tile and reinforced concrete floors, reinforced concrete footings; equipment \$75,000.*

N. C., Asheville—Shirley Investment Co.,

Greensboro, purchased 3-acre site, Grove Park area, fronting on Macon Ave.; reported to erect \$1,250,000 apartment building.

N. C., Charlotte—Citizens Hotel Co. will erect \$275,000, 135-room addition to Hotel Charlotte; W. L. Stoddart, Archt., 50 E. 41st St., New York; bids opened July 20.

Tenn., Chattanooga—A. S. Brownlow will erect \$30,000 stucco apartment house, Unaka Ave. and New St.

Tenn., Nashville—Walter H. Wright will erect \$11,000, two-story triplex apartment, 1704 Eighteenth Ave.; also erect two 5-room frame houses, 5007-09 Illinois Ave.

Tex., Dallas—Harvey T. McQueen, Merchants Bank Bldg., and Jack W. Tucker, 4814 Swiss St., will soon start work on \$500,000 hotel and apartment building, 723 St. Paul St.; 10 stories and basement, 133 hotel rooms with bath and 18 apartments, brick and stone, wrought iron trim; W. A. Cooke, Archt., 704 Nesbitt St.*

Tex., Dallas—Geo. H. Zulke, 1510 Sanger St., will erect 16-room, brick veneer apartment building, 5930 Oram St.; cost \$12,000.

Tex., Denton—Clyde M. Godwin will erect \$20,000, four-story annex to hotel.

Tex., Fort Worth—Ralph Hanley, 2250 Lipscomb St., will erect \$14,000, brick veneer apartment building, 3009 Hemphill St.

Tex., Fort Worth—B. D. Monk, 1334 E. Myrtle St., will erect \$20,000 brick apartment building, 1619 Alston St.

Tex., Houston—F. S. Glover, Archt., Binz Bldg., has permit for erection two \$20,000 apartment buildings, 519 and 523 Colquitt St., Montrose addition; brick veneer, garages, rates.

Tex., Houston—National Bond & Mortgage Corp., Bankers Mortgage Bldg., will erect two 2-story apartment buildings, one Mandell addition, other Houston Heights; 4 suites, brick veneer; Cameron D. Fairchild, Archt., receiving bids.

Tex., Houston—Securities Investment Co., D. D. Krah, Mgr., 1004 Willard St., will erect two \$22,000 brick veneer apartment buildings, Jack and Richmond Road in Monroe.

Tex., Houston—W. P. Schuppan will erect frame, brick veneer apartment house, 3902 Lamar St.; cost \$16,000.

Tex., Houston—R. S. Sterling, 600 Travis St., reported to have plans by Hedrick & Gottlieb, Second Natl. Bank Bldg., for \$7,000,000 40-story hotel, Texas Ave., between San Jacinto and Caroline Sts., construction to begin about Jan. 1; Georgian type, 250x150 ft., steel frame, granite, limestone and face brick walls, ornamental plaster and tile, travertine, marble and hardwood interior, cornices trimmed with Bedford stone, tower to rise from center of structure at 20th story, to be finished in glazed tile with cresting and cupola of bronze, to be equipped with searchlight, outside galleries and open-air promenades, 140-ft. arcade, convention floor to seat 2000, 910 guest rooms, 30 sample rooms, 2 roof gardens, 50x130 ft.; install pipe organ; to be operated by T. B. Baker, Dallas, San Antonio, etc.

Fla., Juncton—Junction Hotel Co., care A. E. Loeffler, rejected all bids for erection of 2-story, steel, concrete and brick hotel building; receiving new bids on revised plans with omission of 1 wing; Adams & Adams, Archt., Builders Exchange Bldg., San Antonio.*

Tex., San Antonio—Baker Hotel Co., T. B. Baker, Pres., Gunter Hotel, opened bids for erection 3-story brick and concrete addition on top 8-story Gunter Hotel, Houston and St. Mary's St.; remodeling present structure and erection arcade; cost \$600,000; McKenzie Construction Co., Travis Bldg., low bidder: \$60,000 for tile for baths, lobby, etc.; Herbert S. Green, Archt., Alamo Natl. Bank Bldg.*

Tex., San Benito—San Benito Community Hotel, Ed Down, Pres., receiving bids for erection \$175,000 hotel; two and three stories, 80 rooms with private bath, hollow tile, reinforced concrete, face brick, plaster walls, metal lath; Harvey P. Smith, Archt., 312 National Bank of Commerce Bldg., San Antonio.*

Tex., Sebastian—R. A. Brazell will soon let contract for 14-room frame hotel.

Tex., Weslaco—Clarence A. Sheffield, Park Hotel, Dallas, has preliminary plans in progress by Wyatt C. Hedrick, 1005 First Natl. Bank Bldg., Fort Worth, for \$250,000, 5-story and part basement, brick, stone reinforced concrete fireproof, 100-room, hotel building.

Va., Warsaw—Warsaw Hotel Corp., Rodney M. Coggins, Pres., plans to erect \$50,000 hotel.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

CONSTRUCTION DEPARTMENT

Manufacturers Record

Miscellaneous

Fla., Miami—Opa-Locka Co., Inc., G. Carl Adams, Pres., 132 E. Flagler St., has plans by Bernhardt E. Muller 527 Fifth Ave., New York, for clubhouse.

Fla., Miami Beach—Carl G. Fisher, Lincoln Rd., has plans by August Geiger, Calumet Bldg., for \$250,000 La Gorce golf clubhouse; 2 stories, 250 lockers and showers.*

Fla., Tampa—De Luxe Dinner will erect \$10,000 lunch wagon, Marion St.

Fla., Tampa—Seaman's Institute, T. B. Leach, Supt., plans to erect 5-story, fireproof building to replace structure noted burned.

Fla., Valparaiso—James E. Plew, 220 S. State St., and associates, Chicago, reported to erect \$1,000,000 clubhouse and golf course for Olympic Fields Country Club, C. M. Smalley, member, 111 W. Washington St.

Ga., Atlanta—Atlanta Golf and Country Club, 808 Candler Bldg., is being organized, C. M. Paschal, Chmn., organization plans: leased 87-acre site on Cascade Ave., near Five Points, and will erect Spanish type clubhouse; plans also include swimming pool, tennis courts, children's playground and golf course; cost \$200,000.

Ga., Macon—Macon Baseball Club will erect grandstand to replace burned structure.

Ky., Lexington—Lexington Country Club, Chmn., Board of Governors, will erect \$50,000 clubhouse on Paris pike; 1½ stories, 40x60 ft.; Churchill & Gillig, Archts., Fayette Bank Bldg.*

Miss., Jackson—Rev. W. G. Francis, Clifton Blvd., interested in erection of \$50,000 building at Old Men's Home.

Okla., Tulsa—Tulsa Tennis Club, J. M. Gillette, 2130 Terrace Drive, Chmn., Organization Comm., will erect clubhouse; grill, reception room, lockers, showers, swimming pool.

Tenn., Chattanooga—Clarence T. Jones, James Bldg., is drawing plans for municipal golf clubhouse.

Tenn., Knoxville—John A. Ayres, Robert L. Bright, Empire Bldg., and others organizing Holston Hills country club, to include clubhouse, swimming pool, bridle paths, etc.

Tenn., Knoxville—Jonathan Waverly Backman Home Trustees will erect \$15,000 Boys' Cottage.

Tex., Dallas—Fooshee & Cheek, Athletic Club Bldg., selected as architects for Frank Reaugh Fine Arts Museum and Studio being promoted by M. J. Norrell, Asst. Mgr., Chamber of Commerce, C. E. Calder, 2816 Stratford Rd., and others; cost \$35,000.*

Tex., Luling—Edgar B. Davis, care North and South Oil Co., receives bids about Aug. 5 for clubhouse, dancing pavilion and bathhouse; one story, hollow tile and concrete, tile roof; John Marriott, Archt., Frost Bldg., San Antonio.

Railway Stations, Sheds, Etc.

Va., Portsmouth—Seaboard Air Line Rwy., W. D. Fauchette, Ch. Engr., Savannah, Ga., will erect 2-story storage building at shops; cost \$10,000.

Schools

Ala., Anniston—Calhoun County Board of Education, S. B. Gibson, Supt., will erect consolidated school at Eulaton; 5 rooms and auditorium.

Ark., Monette—School Board will erect \$10,000, 42x80 ft. auditorium and gymnasium annex to high school; plans by Architect Wolpert.

Fla., Avon Park—See Fla., Sebring.

Fla., Davenport—Board of Public Instruction will erect 12-room and auditorium school, improve present structure, erect teacherage and school for colored children; \$95,000 bonds voted.*

Fla., Deerfield—Broward County Board of Public Instruction, Jas. S. Rickard, Supt., Fort Lauderdale, receives bids until July 26 for erection 6-room school; Thos. D. McLaughlin and Associates, Archts.

Fla., De Land—Volusia County Board of Public Instruction receives bids until August 5 for \$100,000 elementary school on N. Boston Ave.; 200x150 ft., 14 rooms, one story Spanish type, brick and hollow tile, concrete and maple floors, H. M. Griffin, Archt., 512½ Malu St., Daytona Beach; also erect 6-room, 3-story addition to high school, N. Clara Ave., expend \$3000 to remodel vocational building and \$10,000 for woodworking equipment for manual training department of high school.*

Fla., Eau Gallie—Brevard County Board of

Public Instruction, Mrs. Alice Shelbourne, Sec., Titusville, receives bids until July 23 for 5-room school for colored children; plans and specifications at office W. M. Christen, Archt., Melbourne, Fla.

Fla., Fort Lauderdale—Special Tax School Dist. No. 4, comprising Davie and Dania, voted \$200,000 bonds for school purposes.

Fla., Gainesville—Alachua County Board of Public Instruction, E. R. Simmons, Supt., receives bids until August 10 for erection and heating \$150,000 high school and auditorium of negro building; drawings and specifications at office Edwards & Sayward, Archts., 101 Marietta St., Atlanta, Ga.; office E. R. Simmons, Supt.; Master Builders' Exchange, both Gainesville; Builders' Exchange, Atlanta, Ga.*

Fla., Green Cove Springs—Florida Military Academy, Col. G. R. Wilson, Supt., will move from Magnolia Springs to St. Elmo Hotel on St. Johns River; remodel hotel.

Fla., Hopkins—Brevard County Board of Public Instruction, Mrs. Alice Shelbourne, Sec., Titusville, receives bids until July 23 for alterations and additions to Hopkins Borough School; plans and specifications at office W. M. Christen, Melbourne, Fla.

Fla., Lakeland—Polk County School Comms., Dr. J. A. Garrard, Chmn., Bartow, selected E. C. Hostord to prepare plans for high school on Lake Weir; cost \$240,000.*

Fla., Orlando—Orange County Board of Public Instruction, A. B. Johnson, Sec., receives bids until Aug. 3 for erection Junior High School, Eola Drive and Palmer St., including installation heating and plumbing; plans and specifications at office Howard M. Reynolds, Archt., O. B. & T. Bldg.

Fla., Port Tampa—Hillsborough County Board of Public Instruction, W. D. F. Snipes, Supt., Tampa, receives bids until July 29 for \$100,000 grade school; 2 stories, brick, stone and terra cotta, Barrett roof, fireproof stairways and enclosures, vacuum steam heat; C. Frank Galliher, Archt., Zack and Ashley Sts., Tampa.*

Fla., St. Andrew—St. Andrew School Dist. Trustees will erect \$60,000 school; 10 rooms and auditorium, brick; bonds voted.

Fla., Sebring—Highlands County Board of Public Instruction, Col. F. N. K. Bailey, Supt.-Sec., will erect negro school, ward school and install equipment for laboratories of high school in Sebring; \$100,000 bonds voted; also erect negro school, equip chemical and physical laboratories in high school, new roof on grammar school, addition to teachers' home, etc., in Avon Park; \$80,000 bonds voted.*

Fla., Tampa—Hillsborough County Board of Public Instruction, W. D. N. Snipes, Supt., receives bids until July 29 for \$15,000 addition to Gorrie School; approved plans by F. J. Kennard, 303 Zack St., for Junior High School at West Tampa and soon call for bids.*

Fla., Cochran—Agricultural and Mechanical College will soon call for bids for \$80,000 administration building; 2 stories and basement, brick, stone trim; W. W. Simmons, Archt., Lamar Bldg., Augusta.*

Fla., Enigma—Enigma School Dist., A. N. Dean, Sec.-Treas., will receive bids about August 1 for erection one-story brick school; cost \$30,000, composition or tile roof, brick foundation.*

Fla., Fort Valley—Fort Valley Consolidated School Dist. Trustees plan to erect school; election July 27 on \$180,000 bonds.

Fla., Macon—Wesleyan College, Dr. Wm. Quillan, Pres., is having plans prepared by Walker & Weeks, 1900 Euclid Ave., Cleveland, Ohio, for \$1,500,000 Greater Wesleyan building program at Rivoli.*

Fla., Toombsboro—Toombsboro School District voted \$10,000 bonds for enlargement of school building Address Board of Trustees.

Fla., Winder—Trustees, School Dist. No. 2, J. H. Wall, Chmn., will erect 10-room and auditorium building and remodel present building at Statham; \$25,000 bonds voted.

Ky., Lexington—Fayette County Board of Education plans to erect 10-room, \$30,000 school at Russel Cave; also erect \$12,000 to \$15,000, six-room graded school in Kenwick District.

Ky., Louisville—Samuel D. Jones, Business Director, Board of Education, receives bids until July 30 for additions and alterations, plumbing, sewerage, electrical work, heating and ventilating in Emmet Field School, Gardner Ave. and Sacred Heart Lane; plans and specifications at office J. Meyrick Colley, Archt.; also Lewis & Warren, Heating and Ventilating Engrs., 1001 Realty Bldg.

Ky., Paducah—Board of Education, L. J. Hannifan, Supt., City Natl. Bank, will soon

let contract for Franklin Junior High School; cost \$45,000, brick and concrete, fireproof stairways; G. Tandy Smith, Jr., Archt., Guthrie Bldg.

La., New Orleans—Orleans Parish School Board, City Hall Annex, opened bids for 3-story, fireproof, reinforced concrete, stone and brick Henry W. Allen elementary school on Franklin St.; 29 rooms accommodate 1200 pupils; E. A. Christy, Supervising Archt.; R. P. Farnsworth & Co., lowest bidders at \$384,420.*

Md., Baltimore—Board of Awards, Mayor Howard W. Jackson, Pres., will receive bids in duplicate at office F. A. Dolfield, City Register, City Hall, for alterations to School No. 15, Carrollton Ave. and Saratoga St.; drawings and specifications at office C. H. Osborne, Ch. Bureau of Buildings, Dept. of Public Works.

Miss., Bassfield—School Board, Dr. E. N. Blount, Sec., receives bids July 30 for 200x100 brick school; 100x100 ft., wood floors, brick foundation.*

Miss., Cleveland—State Building Comm., R. L. Brown, Sec., Jackson, will soon call for bids for erection Delta Teachers Normal; N. W. Overstreet, Archt., Overstreet Bldg., Jackson.

Miss., Longview—Longview Consolidated School Dist. plans to erect school building; election Aug. 3 on \$10,000 bonds. Address Dist. School Trustees.

Miss., Oxford—State Building Comm., R. L. Brown, Sec., Jackson, receives bids until Aug. 5 for chapel and auditorium at University of Mississippi; cost \$150,000; C. H. Lindsay, Archt., Lamar Bldg., Jackson.*

N. C., Burgaw—Pender County Board of Education, T. T. Murphy, Supt., will erect \$100,000 high school; L. N. Boney, Archt., Murchison Bank Bldg., Wilmington; bids opened July 20.*

N. C., Durham—Duke University plans number of fraternity houses; 2 stories, 12 double rooms.

N. C., Elm City—Board of Trustees, Carl B. Bailey, Chmn., receives bids until July 27 for erection addition to grammar school; separate contract for heating and plumbing; plans and specifications at office Wilson, Berryman & Kennedy, Archts., Raleigh, N. C., and Columbia, S. C.

N. C., High Point—School Board, T. W. Winship Andrews, Supt. of Schools, is considering erection grammar school on E Green St.

N. C., Marshall—Madison County Board of Education, O. S. Dillard, Supt., will erect 10-room school in Number Four Township; bids opened July 19.*

Okl., Cushing—School Board will erect \$18,000 grade school; Hawk & Parr, Archts., Cotton Exchange Bldg., Oklahoma City; taking bids.*

Okl., Fairfax—School Board will erect one-story tile and brick school in Pahe District.

Okl., Norman—State Board of Public Affairs, Carl L. Rice, Chmn., will soon begin work on \$186,000 gymnasium at University of Oklahoma; 170x240 ft., Gothic type.

S. C., Allendale—School Board, J. L. Oswald, Chmn., receives bids until Aug. 2 for Consolidated High School; cost about \$100,000; plans and specifications at office Mr. Oswald, Builders Exchange, and office Willis Irvin, Archt., Southern Finance Bldg., both Augusta.*

S. C., Newberry—School Board selected A. Ten Eyck Brown and A. Barill, Jr., both Forsyth Bldg., Atlanta, Ga., to prepare plans for \$250,000 high school.

S. C., Travelers Rest—County Board of Education, B. B. Knight, Supt., Greenville, will erect 3-room and gymnasium addition to high school.

Tenn., Nashville—Montgomery-Bell Academy, Harding Rd., will erect \$60,000 2-story administration building to replace burned structure.

Tenn., Dayton—Rhea County School Board will erect schools at Five Points and Johnson's Stand.

Tenn., Hillsboro—Coffee County School Board, Manchester, plans to erect school.

Tenn., Knoxville—Knox County Board of Education is having plans prepared by C. A. Tarwater for \$12,000 school at Mount Olive; 4 rooms and auditorium.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tex., Amarillo—Board of Education, W. A. McIntosh, Supt., plans to erect second unit to high school and other improvements; election in July on \$250,000 bonds.

Tex., Austin—Board of Education, A. N. McCallum, Supt., rejected bids and call for new bids until July 26 for completion of 4-story to Senior High School, to include partitions, plaster walls, composition, mastic, edge grain, oak and linoleum floors, cost \$35,000; Giesecke & Harris, Archts., 207 W. Seventh St.*

Tex., Austin—Rt. Rev. Christopher E. Byrne, Bishop of Galveston, purchased Stuart Seminary and will remodel for Catholic School for Mexican children.

Tex., Cuero—School Board plans to erect building for vocational training department on high school campus.

Tex., Edinburg—Giesecke & Harris, 207 W. Seventh St., Austin, preparing plans for following schools, part of building program for which \$1,000,000 bonds have been voted by the Edinburg Independent School Dist.; \$35,000 addition to high school, \$55,000 addition to Ward School, \$65,000 addition to Mexican Children's School, \$50,000 auditorium, \$50,000 teacherage; also Science building, industrial building with power plant, junior high school and three country ward schools.*

Tex., La Pryor—School Board, Roy Corbett, Pres., will erect auditorium and additional rooms at school building; brick and concrete; \$36,000 bonds voted.

Tex., San Antonio—St. Phillips School for Girls has preliminary sketches in progress by Giles & Beckmann and Williams & Williams, Asso. Archts., Monroe Bldg., for Parochial School, 2120 Dakota St., Denver Heights; 2 stories and basement, 47x93 ft., concrete, hollow tile and stucco addition; dormitory portion to accommodate 50; 12 classrooms.

Tex., Sweetwater—Board of Education, W. H. Bartlett, Sec., will erect \$225,000 high school; Page Bros., Archts., 348 Austin Natl. Bank Bldg., Austin.*

Va., Danville—School Board opened bids for erection North Danville Junior High school; C. M. Weber, Masonic Temple, lowest bidder; cost \$138,500; Chas. M. Robinson, Archt., Times-Dispatch Bldg., Richmond.*

Va., Williamsburg—College of William and Mary, Dr. J. A. Chandler, Pres., receives bids until July 31 at office Chas. M. Robinson, Archt., 1002 Times-Dispatch Bldg., Richmond, for boys' and girls' dormitories; plans and specifications at office architects and Builders' Exchanges at Norfolk and Richmond.*

Stores

Ala., Huntsville—Great Atlantic and Pacific Tea Co., 150 Bay St., Jersey City, N. J., reported to establish stores in Huntsville and 15 in North Alabama.

Ark., Marked Tree—Harry Cole will erect three brick storehouses.

Fla., Frostproof—A. W. Peterson, Sebring, purchased site on Wall St., and will erect business building.

Fla., Frostproof—Harvey C. Wheeler, Boston, Mass., purchased 400 ft. square site on scenic highway and reported to develop block for business purposes.

Fla., Jacksonville—Furchgott's Store, Fred Meyerheim, Sec.-Gen. Mgr., Main and Forsyth Sts., plans \$100,000 improvements to building; install three Warren safety elevators, remodel, new fixtures, etc.

Fla., Perry—P. M. and P. C. Poppell will soon begin erection one-story business building on Hampton Springs Rd.

Fla., South Palm Beach—S. C. Innman & Co., Winter Haven, will erect \$40,000 mercantile building, S. Olive Ave. and Lakeland Drive; 110x116 ft., one story, hollow tile.

La., Monroe—Joseph Kusin, 412 Pine St., has permit to remodel 2-story brick building on De Siard St.; cost \$10,000.

Miss., Biloxi—Mrs. P. C. Caldwell is reported to erect business block, W. Howard Ave.

Miss., Columbia—Pearl River Grocery & Grain Co. will erect building on Broad St to replace burned structure; 60x120 ft., cement block manufacturers by Richard Kalil.

Mo., Kansas City—Sharon Development Co. will erect building at 4327-33 Mercer St.; cost \$15,000.

Mo., Kansas City—B. F. Moats, 40 E. 53d St. Terrace, purchased 129 ft. site, Boulevard and 39th St. and plans to develop for business purposes.

Mo., Kansas City—Duplex Building Co.,

200 E. Tenth St., is erecting 1-story English type building, 43d St. and Indiana Ave.; 65x130 ft., 8 storerooms, brick and tile.

Mo., Kansas City—Porter, Hall & Porter, 407 Commerce Bldg., will erect first unit of three storerooms, eventually extend building 103x144 ft., Troost Ave. and 27th St.

Okla., Tulsa—A. F. Bryant will erect one-story building, 10810 N. Greenwood Ave.; cost \$10,000.

Okla., Tulsa—Moulder Oldham will erect store and office building; cost \$10,000.

S. C., Anderson—Gallant-Belk will enlarge store building.

Tenn., Chattanooga—N. W. Zimmerman will erect \$15,000, 34x90 ft. building, Rossville Ave.

Tenn., Chattanooga—Elinore Thomas will erect \$15,000 to \$20,000 business building on Whiteside St.

Tenn., Knoxville—Ben Park and Charles Maynatt plan to rebuild Maynatt Building on Market St., recently damaged by fire; cost \$40,000.

Tex., Houston—A. B. C. Stores, Inc., 529 W. Alabama St., will erect \$35,000, one-story, 100x100 ft., reinforced concrete, brick and hollow tile store building, N. Main and Hogan Sts.; refrigerating plant; Jas. Ruskin Baley, Archt., 1606 Main St.; bids opened.

Tex., Houston—Jesse H. Jones Co., Goggan Bldg., erect store in 1000 block Main St., 2 stories, basement 40x100 ft.; to be leased by Thomas Goggan & Bro., 706-08 Main St.

Tex., Laredo—Dr. A. L. Edington will erect \$20,000, brick, concrete and stucco business building; one and two stories; J. I. White, Archt., Houston Bldg., San Antonio; receiving bids.

Tex., Mercedes—C. L. Fore plans construction of 1 or 2 story, brick and reinforced concrete business building.

Tex., Paducah—H. P. Cook will erect 2-story, brick and reinforced concrete building; R. H. Stuckey, Archt., Chillicothe.

Tex., San Antonio—E. S. Bronaugh, 208 E. Houston St., receiving new bids for remodeling and second story addition; L. Harrington Co., Archt. and Engr., Builders Exchange Bldg.

Tex., Victoria—Max Werner having plans revised by John Marriott, Frost Bldg., San Antonio, for 2-story, brick, concrete and steel store building.

W. Va., Welch—E. H. Sudduth Estate, Walton Sudduth, Bluefield, will erect 40x121 ft., brick building, McDowell St.; J. C. Penny Co. and Peter Kaufman will lease structure.

Theaters

Fla., Jacksonville—Sparks Enterprises, M. C. Talley, Sec.-Treas., Lakeland, will re-

BUILDING CONTRACTS AWARDED

Association and Fraternal

Ala., Columbiana—Lodge No. 140, A. F. & A. M., started work on brick lodge and motion picture theater building.

Ark., Pine Bluff—Sahara Temple, A. A. O. N. M. S., Main St., T. J. Collier, Chmn., Bldg. Comm., let contract for \$225,000 mosque, Martin Ave. and Pine St., to Stewart-McGehee Construction Co., Kahn Bldg., Little Rock; reinforced concrete and hollow tile, 4 stories and basement, 110x208 ft., door panels, built-up roof, oak, concrete, tile, marble and terrazzo floors, cooling system, 1 electric elevator; Mitchell Selligman, Architect, 206 Pine St.*

Tenn., Memphis—Benevolent Protective Order of Elks, Frank L. Monteverde, Past Exalted Ruler, 190 Markey St., let contract at about \$500,000 to H. J. Gilbertson Construction Co., Graham Bldg., for concrete and steel building, Front St. and Jefferson Ave.; plumbing, heating, electric wiring and elevators to be let July 28; cost about \$1,000,000, 12 stories, lobby and clubrooms, ballroom, libraries, etc.; 150 sleeping rooms, with bath on upper floors; Geo. Mahan, Jr., American Bank Bldg., and J. J. Broadwell, Cotton Exchange Bldg., Archts.*

Bank and Office

Ala., Anniston—Southern General Fireproofing Co., 263 Decatur St., has reinforced steel and metal tile contract for \$500,000 office building for Anniston Building Co.; cut stone, Southern Cut Stone Co., 230 Confederate Ave.; rubber tile and linoleum, W. A.

model Empress Theater, 18 E. Forsyth St.; cost \$40,000; Southern Theater Equipment Co., contract for equipment; Roy A. Benjamin, Archt., Bisbee Bldg.

Fla., Jacksonville—Judge Burton Barrs, Bisbee Bldg., and others plan to erect Little Theater, State and Market Sts.; cost \$40,000, seat 500; Mrs. Strawn Perry, Archt.

Fla., Miami Beach—Claude C. Matlack will erect Little Theater, 323 Twenty-third St.

Fla., St. Petersburg—Easton Realty Co., Easton, Pa., Roscoe Lawrence, local representative, 321 Fourth St., will erect theater on Fourth St. N.

Tenn., Knoxville—Publix Theater Corp., 16 East 42d St., New York, promoting erection of theater building on Gay St.

Tenn., Sevierville—Thomas Clark, Knoxville, plans to erect moving-picture theater; brick; seating capacity 350.

Tex., Dallas—Loew's Theater, Inc., 1540 Broadway, New York, is reported to erect \$1,000,000 theater; Howard McCoy, Dist. Mgr.

Tex., Houston—W. H. Irvin, 106 Avandale St., and associates will erect \$200,000 De Luxe Theater, Washington St. and Heights Blvd.; Spanish type, fireproof, install \$40,000 pipe organ; A. H. Emenhiser, Mgr.

W. Va., Huntington—Biggs, Long Realty Co., A. B. Hyman, Pres., 724 Fourth Ave., reported to erect \$650,000 theater, Fourth Ave. between Ninth and Tenth Sts., to be operated by Keith-Albee Theater Co., 1564 Broadway, New York; 155x120 ft., with 45-ft. lobby; seating capacity 2500; install 30-ton ice manufacturing plant to cool theater.

Warehouses

Fla., St. Petersburg—J. T. Bandy & Co., A. C. L. Bldg., Tampa, will erect warehouse at Bayboro.

Miss., Gulfport—Gulf and Ship Island R. R. Co. will erect 50x100-ft. warehouse on west pier for Finkbine-Guild Transportation Co.

S. C., Newberry—R. B. Baker soon let contract for erection of 1-story and basement, 110x120 ft., slow burning construction wholesale grocery building; concrete foundation, tar and gravel roof; Wilson, Berryman & Kennedy, Archts., Palmetto Bldg., Columbia. (See Machinery Wanted—Metal Doors, Sash and Trim; Wire Glass; Sprinkler System.)*

Tex., Dallas—T. L. Peeler, 4008 Lemmon St., will erect \$13,000 two-story brick and concrete warehouse, 2213-15 Griffin St.

Tex., San Angelo—Martin Glover Co. will erect 70x70 ft. addition to warehouse; cost \$25,000, hollow tile and brick, fireproof roof.

Va., Richmond—Virginia Electric & Power Co. will erect \$13,000 warehouse on Davis Ave. between Grayland and Parkwood Ave.

Lippencott Co., 172 Spring St.; marble and tile, Interstate Marble & Tile Co., 10 W. Baker St.; painting, Wm. Wilson, Bona-Allen Bldg.; steel sash, David Lupton's Sons Co., Bona-Allen Bldg.; elevators, Otis Elevator Co., 29 E. Harris St., all Atlanta, Ga.; roofing and sheet metal, Interstate Roofing & Foundry Co., Anniston; structural steel, Ingalls Iron Works; miscellaneous iron, Ironart Co., 2319 Avenue E; glass and glazing, Pittsburgh Plate Glass Co., 2901 Second Avenue, N.; wiring, Alabama Supply Co., 1918 Fourth Avenue N, all Birmingham; plumbing and heating, Michael Supply Co., Talladega; millwork, Enochs Lumber & Manufacturing Co., Jackson, Miss.; Warren, Knight & Davis, Archts., Empire Bldg., Birmingham; Spiker & Lose, Forsyth Bldg., Structural Engr.; A. J. Krebs & Co., Walton Bldg., Contrs., both Atlanta.*

Ala., Birmingham—Ingalls Iron Works Co., 720 Avenue D, has struct. steel contract for \$200,000 office building, 21st St. and Second Ave., for Henry Upson Sims, First Natl. Bank Bldg.; reinforcing steel, Truscon Steel Co., 513 N. 21st St.; painting, Chas. W. Rowe Co., 405 N. 24th St.; stone, Reed Bros., 3030 N. Eighth Ave.; plastering, R. A. McLeod, 1616 N. First Ave.; misc. and ornamental iron, Birmingham Fabricating Co., 114 S. 22d St., all Birmingham; marble, Reeves Marble Co., Citizens' Southern Bank Bldg., Atlanta, Ga.; millwork, Enochs Lumber & Manufacturing Co., S. State St., Jackson, Miss.; D. O. Whilldin, Archt., 515 Twenty-first St.; Davis Co., Contr., 801 Sixth Ave.*

Ala., Birmingham—Estes Lumber Co., 2600 N. 28th St., excavating for \$35,000 office In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

CONSTRUCTION DEPARTMENT

building, Vanderbilt Rd.; brick veneer, 1 story, 50x100 ft., rift pine floors, concrete foundation, cement tile roof; Warren, Knight & Davis, Archts., 1003 Empire Bldg.; owner builds. See Machinery Wanted.*

Ala., Birmingham—Viaduct Realty Co., 211 N. 21st St., for Birmingham Electric Co., let contract for 3 additional stories to 4-story office building, First Ave. and 21st St., to E. G. Holliday, 401 Martin Bldg.; 50x140 ft., terra cotta, brick and tile, built-up roof, struct. steel, cement floors; cost \$175,000; C. H. McCauley, Archt., 709-11 Jackson Bldg.; 2 passenger and 1 freight elevator, to Otis Elevator Co., 2310 N. Third Ave.*

D. C., Washington—Bank of Commerce & Savings let contract for remodeling and addition to building to Schneider-Spled Co., 1416 F St., N. W.; counter and under-counter work, Library Bureau, 743 15th St., N. W.; bank fixtures, M. Ohmers Sons Co., Dayton, Ohio; Indiana limestone exterior, 1 story, 42x60 ft., steel sash and trim, tile, hardwood and composition floors, marble; Heister & Co., Archts., Union Savings Bank Bldg., Washington, and First Natl. Bank Bldg., Durham, N. C.*

Fla., Coral Gables, Miami—Faningo Realty Corp., Ponce de Leon Blvd. and Alcazar Ave., erect \$80,000 store and office building; ordinary type, 3 stories, 128x80x8x149 ft., pine floors, concrete foundation, composition roof; Anthony DeH. Zink, Archt., 304 Seybold Bldg., Miami; owner builds and will let sub-contracts on roofing, electric work, plastering, plumbing, stucco and elevator.*

Ga., Americus—Dr. W. A. Prather, S. Jackson St., let contract at \$12,000 to B. C. Kent & Sons for medical office building; brick, inside wood finish, 1 story, 55x87 ft., concrete foundation, tile roof; furnishings, equipment, etc., about \$25,000; plans by Contrs. See Machinery Wanted.*

Ga., Atlanta—Otis Elevator Co., 29 E. Harris St., has \$30,000 permit to install 2 elevators in \$350,000 to \$400,000 Norris Bldg., under construction for Whitehead Realty Co., Candler Bldg.; Pringle & Smith, Archts., Atlanta Trust Co. Bldg.; Spiker & Lose, Engrs., Forsyth Bldg.; Barge-Thompson Co., Contr., 100 E. Ellis St.*

Ga., Rossville—Hamilton Trust & Savings Bank, Market and Main Sts., let contract at \$38,000 to T. S. Moudy & Co., 43-44 Chamberlain Bldg., for branch bank; reinforced concrete and brick, 1-story, tile floors, tar and gravel roof; Clarence T. Jones, Archt., James Bldg., all Chattanooga, Tex.; heating, electric work and plumbing by owner; sub-contracts let.*

Ky., Paducah—Miss Phillipa Hughes, 837 Jefferson St., let contract at \$10,000 to W. M. Karnes & Son, 1120 Trimble St., for building to be occupied by Peoples National Bank of Paducah, N. W. Van Culin, Vice-Pres.; pressed brick and stone, 1 story, plastered interior, concrete floor; fixture by owner.*

La., Cottonport—Farmers Bank let contract at \$14,550 to E. E. Rabalais, Bunkie, for pressed brick, reinforced concrete and stone building; stone trim, 1 story, tile and wood floors, concrete foundation, composition roof; fixtures, vaults; Wm. T. Nolan, Archt., Canal-Commercial Bldg., New Orleans.*

La., New Orleans—White Floor Co., 3606 Canal St., has contract to lay oak floors in Howard Realty Co.'s 5-story office building; W. E. Spink, Archt., Canal-Commercial Bldg.; W. Horace Williams Co., Inc., Contr., 816 Howard Ave.*

La., New Orleans—Owen Electric Construction Co., 1136 S. Carondelet St., has electric work contract for Canal-Commercial Bank & Trust Co.'s branch bank, Canal and Claiborne Sts.; Lionel F. Favret, Contr., 402-03 Louisiana Bldg.

Miss., Natchez—Owen Electric Construction Co., 1136-38 Carondelet St., New Orleans, La., has wiring contract for remodeling City Bank & Trust Co. building; Weiss & Dreyfous, Archts., Maison Blanche Bldg., New Orleans; McArthur & McLemore, Contrs., Meridian, Miss.*

Mo., St. Louis—Following contracts let for \$650,000 Beaumont Medical Bldg., 3729 Washington Blvd.; heating, Peters Eichler Heating Co., 1516 Pine St.; plumbing, J. Sheehan Plumbing Co., 1428 Olive St.; painting, J. W. O'Connell Painting Co., 1011 N. Broadway; wiring, Wm. A. Corrao Electric Co., 1415 Pine St.; sheet metal, Powers & Boyd Cornice and Roofing Co., 3614 Laclede St.; misc. and ornamental iron, Builders Iron Work Co., 309 Dorcas St.; reinforcing steel, Missouri Rolling Mill Corp., 6800 Manchester St.; misc. material, Hunks Willis Lime & Cement Co., 317 N. 11th St.; lumber, Phillip Gruner & Brothers Lumber Co., 4006 N. Broadway; rough hardware,

Geller, Ward & Hasner Hardware Co., 414 N. Fourth Ave., all St. Louis; stone work, Central Oolitic Stone Co., 2126 S. Kedzie Ave.; metal windows, Voightman & Co., 4158 Schubert Ave., both Chicago, Ill.; LeBaume & Klein, Archts., Compton Bldg.; Brussell & Viterbo, Engrs.; James Black Masonry & Contracting Co., Contr., Louderman Bldg.*

N. C., Charlotte—Citizens Savings & Loan Co., Selwyn Hotel Bldg., let contract to American Furniture & Fixture Co., Inc., 282 Lester St., Richmond, Va., for fixtures, including tile floors, etc., for 1-story building; general contract let July 20; wiring and painting later; Lockwood, Greene & Co., Archts., Johnston Bldg.*

Okla., Oklahoma City—Mrs. R. Perrine let contract at \$1,000,000 to Manhattan Construction Co., Inc., Muskogee, for fireproof store and office building; stone and brick, concrete frame, 12 stories, 130x140 ft., marble, terrazzo and cement floors, concrete foundation, composition roof; Hawk & Parr, Archts., Cotton Exchange Bldg.; Hons Von Unwerth, Engr.; heating and plumbing, Grinnell Heating Co., 616 Pioneer Trust Bldg., both Kansas City, Mo.; raze present structures on site; construction to start Aug. 1.*

Tex., Amarillo—Charley Fisk erect \$1,000,000 Medical Arts Bldg., Eighth and Polk Sts.; 10 stories, 60x140 ft.; Gilsonite Contracting Co., Athletic Club Bldg., Contr., Dallas.

Tex., San Benito—John T. Lomax let contract at \$63,712, to Will A. Orth, Builders Exchange Bldg., San Antonio, for reinforced concrete, brick and hollow tile bank and office building; 2 stories, 50x150 ft., cement and composition floors, concrete foundations, built-up roof; Harvey P. Smith, Archt., 312 National Bank of Commerce Bldg.; W. E. Simpson & Co., Engrs., 412 National Bank of Commerce Bldg., both San Antonio.*

Va., Norton—First National Bank let contract at about \$53,000 to Jas. H. O'Dell for Indiana limestone building, Seventh St. and Park Ave.; 50x70 ft., 2 stories and mezzanine, steel windows, plate glass, Alabama cream marble screen and wainscoting, gray Tennessee marble floor; drug store and banking quarters on first floor; Clarence B. Kearfoot, Archt.; R. V. Arnold, Asso. Archt., both Bristol; vault contract to Diebold Safe & Lock Co., Canton, Ohio; fixtures, J. P. Womack & Sons, Lakewood, Atlanta, Ga.*

Churches

D. C., Washington—Third Church of Christ, Scientist, 13th and New York Aves., alter building, Third and L Sts. N. W.; cost \$70,000; 1 story, brick; J. Goodwin, Archt., 1719 K St. N. W.; A. L. Smith & Co., Contrs., 2525 Pennsylvania Ave. N. W.

Md., Baltimore—Alameda Baptist Church, Alameda Blvd. and E. 32d St., let contract to J. Henry Smith, 300 E. 33d St., for \$100,000 building; 1 story and basement, 36x76 ft., stone; E. H. Glidden, Jr., Archt., American Bldg.*

Mo., Marshall—Methodist Episcopal Church South let contract at \$34,993 to Wm. P. Gollong for Sunday school annex; plumbing and heating, Paul Groeschel.

Okla., Oklahoma City—American Sash & Door Co., 16th and Bellefontaine Sts., Kansas City, Mo., has millwork contract for \$50,000 Wesley M. E. Church; heating, Blockie Furnace Supply Co., 18 N. Lee St.; wiring, Oklahoma Electrical Supply Co., 324 N. Main St.; stone, Harter Marblecrete Co., 1608 W. Main St.; Bailey & Alden, Archts., Colcord Bldg.; H. M. House & Co., Contrs., 621 W. Main St.*

Tex., Dallas—Oak Cliff Church of Christ, Rev. W. L. Oliphant, Pastor, 107 S. Bishop Ave., erect \$100,000 to \$150,000, brick and stone building; T. J. Galbraith, Archt., 517 Slaughter Bldg.

Tex., Yorktown—Holy Cross R. C. Church let contract for \$15,000 rectory and home for sisters to H. Robt. Gohlke; 9 rooms, basement, brick veneer.*

City and County

Fla., DeLand—City let contract for \$60,000 city hall to J. C. Hanner Construction Co., 130 S. Orange St., Orlando; brick and stucco, steel casement sash, 2 stories, about 125x50 ft., oak and mastic floors, concrete foundation, Barrett specification roof; furnishings, equipment, etc., \$10,000; Gouverneur M. Peck, Archt., 217 Conrad Bldg., W. New York Ave., DeLand; J. B. McCrary Engineering Corp.; Engr., Atlanta, Ga.*

Fla., Fort Lauderdale—City let contract at \$94,726 to Kellison-Berry, Inc., Miami, for clubhouse at municipal golf course; fireproof, hollow tile, concrete and stucco, 2 stories,

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Spanish type, tower, tile, terrazzo and oak floors, lockers; Francis L. Abreau, Archt., 204 Bryan Court.*

Fla., Miami—City let contract to St. John Construction Co., 629 N. W. Seventh St., at \$32,702 each, for fire station at Coconut Grove and one at Buena Vista; hollow tile and wood frame, 2 stories, terrazzo and oak floors, concrete foundation, old Spanish or Cuban tile roof; E. A. Ehmann, Archt., 210 Miami Realty Board Bldg.*

Ga., LaFayette—City started work on municipal building; C. P. Pickard, Contr.

Miss., Greenwood—Leflore County Board of Supervisors has low bid at \$57,601 from Estes-Williams-Ragsdale Co., Cotton Exchange Bldg., Memphis, Tenn., for alterations and additions to courthouse; jail equipment not let; Frank R. McGeoy, Archt.*

Okla., Ada—Pontotoc County Board of Commissioners let contract at \$138,500 to Clicker Construction Co., Hutchinson, Kan., for courthouse; reinforced concrete, 3 stories and jail, 73x105 ft., marble and other floors, composition roof, concrete foundation; Butler Co., Archt., 514 Herskowitz Bldg., Oklahoma City.*

Okla., Poteau—Le Flore County Board of Commissioners let contract at \$141,000 to W. B. Grimsaw, Tulsa, for courthouse; reinforced concrete and white Acme brick, stone trim, 2 stories, 129x78 ft., cement floors, concrete foundations, asphalt roof; T. E. Bassham, Archt., 701 Barnes Bldg., Muskogee; Carnall Wheeler, Asso. Archt.-Constr. Supervisor, Kennedy Bldg., Fort Smith, Ark.*

Okla., Sallisaw—Board of Park Commissioners, H. C. Winter, Chmn., let contract at \$12,475 to Walter Vernon, S. Ninth St., for auditorium at Fair Grounds; brick and concrete, 1 story.

Tex., Kerrville—Kerr County Commissioners' Court let contract at \$61,354 to W. C. Thraillill, Moore Bldg., for brick, stone and concrete courthouse; 3 stories, jail on top floor; Adams & Adams, Archts., Builders Exchange Bldg., both San Antonio.*

Dwellings

Ala., Birmingham—K. W. Berry, 1601 Beech St., erect brick veneer residence, Woodcrest on Red Mountain; 2 stories, 28x50 ft., slate roof, vapor heat; Miller & Martin, Archts., 911 Title-Guarantee Bldg.; Geo. Paul, Contractor, Hollywood.

Ala., Birmingham—P. L. Bush, 205½ N. 21st St., erect hollow tile and stucco residence, Ridgeway Ave., Bush Hills; 1-story and basement, 46x63 ft., tile bath and roof, concrete basement, hardwood floors, built-in features, hot air heat; owner builds.

Ala., Birmingham—Col. R. M. Nolan, 3901 S. Eighth Court, erect brick veneer residence, 4303 Overlook Rd., Forrest Park; 2 stories, 34x60 ft., and baths, tile roof, hardwood floors, vapor-steam heat; Woolard & Lynch, Contrs., 2117 N. First Ave.; plumbing and vapor-steam heating, Frank R. Heck, 2028 Humboldt Ave.; wiring, Whisler Electric Co., 419 N. 19th St.; painting, E. L. Sullivan Decorating Co., Atlanta, Ga.

Ala., Birmingham—Alava M. Pilass erect \$10,000 brick veneer residence, 919 Lincoln Rd.; 2 stories, 8 rooms, composition roof, tile bath, hardwood floors; Woolard & Lynch, Contrs., 2117 N. First Ave.

Ala., Birmingham—E. L. Butter, care Southern Steel Works Co., 908 Lucien Ave., erect brick veneer residence, Bush Hills; stone and stucco, 1½ stories, slate roof, steam heat; Brooke B. Burnham, Archt., 1921 Age-Herald Bldg.

Ala., Uniontown—Mrs. H. P. Brown let contract for 2-story Dutch Colonial residence to Cardwell & Howard; John W. McKell, Archt., Selma.*

D. C., Washington—Henrietta Martin, care L. E. Witmour, Contr., 4418 Gare St. N. W., erect 17 dwellings, 1900-12 14th St. S. E.; 2 stories, 18x33 ft., brick; Jas. T. Malvin, Archt.; 300 Arlington Ave., Clarendon, Va.

Fla., Melbourne—Mrs. Clare H. Burgess erect \$20,000 Italian type residence, Melbourne Ave.; 2 stories and basement, hollow tile, stucco and coquina rock, Italian tile roof, 10 rooms, 2 baths, garage with servants' quarters, slate floors in living and sun rooms, wrought iron balconies and stair railings; DeLoe & Tyler, Archts., Buell Construction Co., Contr.

Fla., Perry—C. S. S. Horne erect 5-room bungalow; D. D. Malone, Contr.

La., New Orleans—Max Frishman, 2302 Valmont St., and Guardian Homestead Assn., Balter Bldg., erect \$13,200 duplex, Calhoun and Delord Sts.; Henry P. Burns, Contr.

La., New Orleans—Oak Homestead Assn.

and Clinton Davis, 33 Neron Place, erect \$15,000 single cottage, Claiborne and Joliet Sts.; H. F. Hinrichs & Son, Contrs., Q. & C. Bldg.

La., New Orleans—Mrs. A. David, 1455 N. Claiborne St., erect duplex; cost about \$10,000; Tasker Watts, Contr.

La., New Orleans—Guido Rossi, 1486 N. Miro St., and Italian Homestead Assn., Union Indemnity Bldg., erect \$12,000 building, Louisiana Avenue Pkwy. and Delachaise St.; Nick Ascani, Contr.

La., New Orleans—Mrs. M. J. Walsh erect \$12,000 building, Louisiana Avenue Pkwy. and Galvez St.; J. B. Riley, Contr., 4536 S. Miro St.

La., Shreveport—Dr. H. A. Durham, 7527 Wilkinson St., let contract at \$14,053 to H. G. Hodges, 238 Prospect Ave., for residence, Atkins Ave.; 2 stories, brick veneer, 9 rooms; Henry E. Schwarz, Archt., Slattery Bldg.*

La., Shreveport—Huey P. Long, City Bank Bldg., erect \$12,500 residence, 305 Forrest Ave.; 2 stories, brick; McConnell & McConnell, Contrs., Recon-Brew Bldg.

Md., Baltimore—Highland Home Building Co., Lexington Bldg., erect 15 brick dwellings, 2801-29 E. Chase St.; 2 stories, 15x40 ft., 14x28 ft. and 15x28 ft.; Carey roofs, steam heat; total cost \$30,000; plans and construction by owner.

Md., Baltimore—Roland Park-Homeland Co., Roland Park, erect 3 dwellings, Upnor Rd. near Charles Street Ave.; 2 stories, various dimensions—also 2 on Witherspoon Rd. near Charles; slate roofs, vapor heat; total cost \$30,000; Palmer, Willis & Lambdin, Archts., 513 N. Charles St.; L. L. Chambers, Inc., Contr., 36th St. and Roland Ave.

Md., Baltimore—Beverly Hills Corp. erect 10 concrete dwellings and garages, S. W. side Beverly Rd. near Walther Ave., 2 stories, 24x34 ft. and 12x20 ft., slate roofs, steam heat; total cost \$35,000; L. Schoenlein, Jr., Archt., both 3826 Araba Ave.; owner builds.*

Md., Baltimore—J. S. Parr, 5308 York Rd., erect 12 brick dwellings, S. E. Cor. Ready and Glenwood Aves.; 2 stories, 18x20 ft., slag roofs, steam heat; total cost \$33,000; J. L. Black, Archt.; owner builds.*

Md., Baltimore—Geo. W. Schoenhals & Co., Munsey Bldg., erect 27 brick dwellings, 1300 block Gorsuch Ave.; 2 stories; total cost \$60,000.

Md., Baltimore—Columbia Building Co., 3609 Harford Rd., erect 5 brick dwellings, 531-39 N. Highland Ave.; 2 stories, about 15x45 ft., brick hot-water heat; total cost

Md., Baltimore—Dr. Walter E. Dandy, 1107 St. Paul St., erect \$30,000 residence, Juniper Rd., near Kemble St.; 2½ stories, 38x27 ft., brick; Cyril Hebrank, Archt., Central Savings Bank Bldg.; L. L. Chambers, Contr., 36th St. and Roland Ave.

Md., Baltimore—J. Raymond Moore, 920 Cathedral St., erect hollow tile and stucco residence, Montrose Ave., near Charles St.; 2½ stories, 35x40 ft.; Chas. M. Anderson, Archt., 9 E. Pleasant St.; Henry T. Sorrell & Son, Contrs., 4112 Kathland Ave.

Md., Clayton, St. Louis—F. S. Codding, 52 Aberdeen Pl., has let contracts for matt brick residence, Ellenwood; 3 stories; about 39.4 x38.6 ft., hardwood floors, slate roof; T. L. Johnson, Archt., 6900 Columbia Ave., University City, St. Louis.*

Md., Clayton, St. Louis—F. T. Chapman, 3228 Union St., erect \$10,000 brick residence, University Park; 28x44 ft.; Mayer Diamond Construction Co., Contr.

Md., Jefferson City—John Case, 211 E. High St., start work Aug. 1 on brick and tile residence, 905 Fairmount Blvd.; 2 stories and basement, 30x34 ft., oak floors, concrete foundation, tile roof; plans and constr. by owner. See Machinery Wanted.*

Md., St. Louis—G. Zoller, 2123 Maury St., erect 2 brick dwellings, 4860-68 Bessie St.; 2 stories, 23x45 ft., asphalt shingle roof, hot air heat; total cost \$10,000; H. J. Reid, Contr., 1801 Bacon St.

Md., St. Louis—Charon Realty Co., 706 Chestnut St., erect \$10,000 dwelling, 2959 Milton St.; 2 stories, 40x50 ft., tile roof; owner builds.

Md., St. Louis—A. G. Rupp, 1901 E. Warne St., erect 2 brick dwellings, 5113-17 Ashland St.; 1½ stories, 26x46 ft., composition roofs, furnace heat; total cost \$10,000; J. F. Rupp Building & Construction Co., Contr., Warne and Conde Sts.

Md., Springfield—Dr. C. E. Feller, 1523 N.

Grant Ave., erecting \$12,000 residence, 1431 N. Jefferson Ave.; brick and hollow tile, 2 stories, 32x34 ft., white oak floors, concrete foundation, tile roof; Wilmer N. Thompson, Archt., 1211 Roanoke Ave.; O. L. Allen, Contr., 860 W. Webster St.; hot water heat, Smith Heating & Sheet Metal Co., 314 E. Central St.; plumbing, J. W. Schneider, 514 Nichols St.; brick, C. W. Batchelor, Archt., 866 North Boulevard. See Machinery Wanted.*

Mo., University City, St. Louis—Albert Tazovsky, 6603 University Drive, erect \$12,000 brick residence, 7266 Westmoreland Drive; 2 stories, 32x32 ft., tile roof, hot water heat; Lawrence Ewald, Archt.; L. H. Masten, Contr., 5041 Page St.

Mo., University City, St. Louis—Jennie W. Ross, 4432 Washington St., erect \$10,000 brick residence, 7469 Teasdale St.; 1½ stories, 28x21.2 ft., composition shingle roof, hot water heat; Jacob Weim, Archt.; A. Dougherty, Contr., 1340 Shawmut Place.

Mo., University City, St. Louis—Miss Babette McQuisten, 4728 Cote Brilliante, erect \$14,000 residence, 503 Warren St.; 2 stories, 34.5x37 ft., reinforced concrete and slate roof, hot water heat; Chester B. Miller, Archt.-Contr., 5238 Cabbane St.

Mo., Webster Groves, St. Louis—C. C. Mulen, 4149a Shenandoah St., erect \$12,000 residence, 30 Sarah St., after plans by Ernest Hess, 3228 Magnolia St., both St. Louis; 2 stories, 26x40 ft., hardwood floors, concrete foundation, asbestos roof; Parnell Quirk, Contr., 240 W. Big Bend Rd.; electric work, Webster Heating Co., 11 W. Big Bend Rd.; plumbing, J. J. McNulty.*

N. C., Durham—Dr. C. H. Shepard, Box 316, let contract for \$12,500 residence, Fayetteville St., to J. M. Whitted, Fayetteville St.; brick veneer, 2 stories, 64x38 ft., hardwood floors, brick foundation; furnishings, equipment, etc. \$4000; Rose & Rose, Archts., Trust Bldg. See Machinery Wanted.*

S. C., Aiken—John W. Converse, Commercial Trust Bldg., Philadelphia, Pa., let contract to Anderson-Stiefel Construction Co. to remodel interior, S. Boundary St. and Whiskey Rd.; cost \$17,000; Scroggs & Ewing, Archts., Lamar Bldg., Augusta, Ga.*

Tenn., Martin—Wm. Hall Preston, St. Charles St., erect \$10,000 brick bungalow, campus Hall-Moody Junior College; 2 stories, hardwood floors, brick foundation, tile roof; Hubert T. McGee, Archt., Fidelity Bank Bldg., Memphis; M. V. Higgs, Contr.*

Tenn., Chattanooga—C. W. K. Meacham, Hamilton Natl. Bank Bldg., erect \$10,000 residence, Oak St.; 2 stories, 8 rooms; J. G. Roberts, Contr.

Tenn., Kingsport—Kingsport Improvement Co. erect 15 brick dwellings, Center St. near Cherokee; 2 stories; Armstrong, Perky & McCoy, Contrs.

Tenn., Knoxville—T. F. Hazen, Jr., 619 Market St., started work on \$15,000 residence, Glenfield Drive; frame, 8 rooms.

Tenn., Memphis—L. A. Reid, let contract at \$10,000 to L. L. Diehl, 1663 Forrest St., for brick veneer, stucco and half timber residence, South Parkway; 1 story and basement, 42x50 ft., oak floors, concrete foundation, composition shingle roof; Estes W. Mann, Archt., 203 Cotton Exchange Bldg.*

Tenn., St. Elmo, Chattanooga—St. Elmo Methodist Church started work on \$12,000 parsonage, St. Elmo Ave.; brick veneer, 2 stories.

Tex., Corpus Christi—L. J. C. Hamilton, 914½ Leopard St., erect Spanish type residence, Santa Fe St.; Del Mar; Del Mar Corp., Contr.

Tex., Houston—J. F. Burwell, 3616 Audubon Place, erect 6-room brick veneer residence, 1913 Rosewood St.; Franklin Building Co., Contr.

Tex., Lubbock—C. E. Macdgen, Pres., Lubbock National Bank, erect \$17,500 residence, Overton addition; brick and tile, 10 rooms; Moss & Phipps, Contrs.

Tex., San Angelo—D. J. Burk erect 1-story and basement brick veneer residence; Swartz & Hamberlin, Archts.; 416-18 Citizens National Bank Bldg.; Hugh Myers, contract at \$9550.

Tex., San Angelo—Edw. B. Willoughby erect \$10,000 brick residence; 1-story, 40x46 ft.; Swartz & Hamberlin, Archts., 415-16 Citizens National Bank Bldg.; F. J. Von Rosenberg, Contr.

Tex., Wichita Falls—Emery Morgan, 2206 Tenth St., erect \$13,000 residence; brick, 2 stories, tile bath; day labor.

Va., Richmond—Realty & Finance Corp., State and City Bank Bldg., has contracts for 2 dwellings, Westover Hills.

W. Va., Welch—Dr. Chas. H. Hicks completed foundation of English type residence, Maple Ave.; timber and brick, tile baths, steel casement windows; C. H. Smithey, Contr.

W. Va., Welch—M. J. Franklin erect residence.

W. Va., Welch—Sam Polon started work on \$50,000 residence; gray brick, green tile roof, 9 rooms; G. C. Johnson, Contr.

Government and State

Fla., Canal Point—United States Dept. of Agriculture let contract at \$16,000 to S. J. Thibodeaux & Co. for hollow tile and stucco laboratory and supt.'s residence at cane-testing station; 1-story, 26x40 ft. and 41x40 ft., concrete damp-proof floors, asbestos shingle roof; plans by U. S. Engineer Dept., Washington, D. C.; material on hand.*

W. Va., Charleston—Capitol Building Commission, Howard Gore, Gov., let contract at \$1,151,000 to James Baird Co., 441 Lexington Ave., for second unit of State Capitol; elevators, Otis Elevator Co., 11th Ave. and 26th St., \$20,910, both New York; heating and ventilating, Enterprise Steam & Hot Water Heating Co., 619 W. Franklin St., Baltimore, Md., \$66,826; plumbing and gas fitting, West Virginia Heating & Plumbing Co., Hale St., \$34,500; electric work, Rosenblatt & Hunt, Professional Bldg., \$30,731, both Charleston; Cass Gilbert, Archt., 244 Madison Ave., New York.*

Hospitals, Sanitariums, Etc.

Ark., Blytheville—Blytheville Hospital let contract to J. W. Rhodes for 2-story addition.

La., Shreveport—Shreveport Charity Hospital let contract at \$47,956 to W. H. Buchanan for frame wing; fireproof, 3 stories, 33x137 ft., pine floors, concrete and brick foundation, slate roof, 30 beds; Seymour Van Os, Archt., City Bank Bldg.*

Md., Baltimore—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., let contract at \$9034 to A. Spampinato Co., 1111 N. Ga. St., for extending and remodeling U. S. Marine Hospital.

Miss., Jackson—Mississippi Building Commission let contract at \$18,864 to W. J. McGee & Son, Lamar Bldg., for nurses' home at State Charity Hospital; brick veneer, 2 stories, 79x42.6 ft., oak floors, concrete foundation, tile and built-up roof; Clements T. Harvey, Archt., Greenville; heating and plumbing, Warburton-Beacham Supply Co., Bailey Ave.; electric work, Electric Contracting Co., 157 E. Capitol St.*

Mo., Kansas City—Research Hospital, 23d and Holmes Sts., let contract to G. F. Green Construction Co., 429 Rialto Bldg., for \$200,000 nurses' home; reinforced concrete, brick, cinder block and terra cotta, 4 stories and basement, 80x140 ft.; J. G. Braecklein, Archt., 602½ Minnesota St. and 220 Kresge Bldg.*

N. C., Raleigh—State Hospital, Dix Hill. Dr. Albert Anderson, Supt., let contract at \$345,000 to W. P. Rose, Goldsboro, for additions to buildings to replace burned sections; heating, Raleigh Iron Works, 134 S. West St., \$28,828; plumbing, Dunford & Kern, Oxford, \$20,978; fireproof, 3 stories and basement, about 50x360 ft. and 40x40 ft. concrete, tile and hardwood floors, brick and concrete foundation, concrete roof, hollow and interior tile, metal doors, steel sash and trim, wire glass, rolling partitions, ventilators, marble, cast stone, limestone, terra cotta trim; Chas. C. Hook, Archt., Johnston Bldg., Charlotte; Wiley & Wilson, Consit. Engrs., Peoples National Bank Bldg., Lynchburg, Va.*

Okl., Supply—Mid-west Steel Co., First Natl. Bank Bldg., has structural and reinforcing steel and miscellaneous iron contract for \$100,000 auditorium at Western State Hospital; Jewell Hicks, Archt., Braniff Bldg.; Mann Co., Contr., Cotton Exchange Bldg., all Oklahoma City.*

S. C., Greenville—Southern Engineering Co., Dowd Rd., Charlotte, N. C., has steel contract for \$350,000 Burgiss Shrine Hospital for Crippled Children; Hentz, Reid & Adler, Archts., 92½ Forsyth St., Atlanta, Ga.; Beacham & LeGrand, Asso. Archts., 17-A North St.; Potter & Shackelford, Contrs., Al-lan Bldg.*

Tex., San Antonio—St. Marks P. E. Church, Rev. R. P. Crum, Pastor, let contract for auditorium to W. C. Perry, Bedell Bldg.; plumbing and wiring, Kirkwood & Wharton, 456 Main St.; heating, R. W. Barnes Co., S. Medina and San Fernando Sts., addition to present structure and 3-story parish house

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

CONSTRUCTION DEPARTMENT

later; Giles & Beckman, Archts., Moore Bldg.*

Va., Winchester—Winchester Memorial Hospital, J. E. Harris, Sec., let contract at \$84,000 to E. M. Herringdon & Co., Terry Bldg., Roanoke, for 3-story brick building; 60x180 ft.; central heating plant to Miller & Anderson at \$19,000; Stuart H. Edmonds, Archt.*

Hotels and Apartments

Fla., Jacksonville—G. H. Cantrell, 22 Avondale Ave., let contract to W. T. Hadlow, Baldwin Bldg., for \$25,000 apartment house in Riverside; hollow tile, 4 suites.

Fla., Palm Beach—Charles Holsclaw has permit to erect \$20,000, 38x87 ft., 3-story addition to apartment house, N. Olive Ave.; frame and stucco; owner builds.

Fla., St. Petersburg—C. W. Fulford, Archt.-Pres.; J. L. Riddell, Sec-Treas. of company to erect Hegardo Apartments, 22d Ave. and Bay St.; Spanish type, 3 stories, masonry and frame; construction under supervision of S. L. Henry.

Fla., Sarasota—Cut Art Stone Co., St. Petersburg, secured contract for 30 car-loads of art stone for Ritz Cloister Hotel, being erected by John Ringling.

La., New Orleans—Dr. T. J. Dimitry, 3601 Prytania St., let contract to H. Makofsky & Co., 3036 Palmyra St., for \$14,266 apartment building, St. Charles and Carondelet Sts.

La., New Orleans—Marie D. Fassman let contract to Frank Nuccio, 4001 Franklin Ave., for fourplex, Catina and Lane Sts.; cost \$13,000.

Miss., Ocean Springs—Cornet-Casey Co., Contrs., Chemical Bldg., St. Louis, and others reported interested in erection of \$1,500,000 resort hotel on Bay of Biloxi; 9 stories and roof garden surmounted by promenade between ornamental towers; 338 guest rooms with private bath, Italian and Spanish types, stucco exterior, stone finish, tile roof; Jones, Roessle & Olschner, Archts., Maison Blanche Bldg.; Harold J. Lynette, Engr., both New Orleans; construction by Cornet-Casey Co.; work to begin in about three months.

Mo., University City (Sta. St. Louis)—Frank T. Chapman, 3328 Union St., let contract to Mayer-Diamond Co., same address, for \$10,000, two-story brick flat and garage, 7023 Amherst St.; 29x45 ft., composition shingle roof, hot water heat; Harry H. Mayer, Archt., 3328 Union St.

Mo., University City (Sta. St. Louis)—Fred Utley, 111 N. Seventh St., let contract to Sedgley Investment Co., same address, for \$10,000, two-story brick flat, 7049 Amherst St.; 25x46 ft.; composition roof, steam heat; Finley & Howard, Archts., International Life Bldg.

Tex., Amarillo—Mrs. B. Fisher & Sons, care Palo Duro Hotel, let contract to George Parr at about \$150,000 for construction of 4-story, brick and reinforced concrete, 75x140-ft., 36-apartment building, 16th and Jackson Sts.; include electric refrigerators, 2 high-speed elevators, garages in connection; M. C. Parker & Co., Archts., Ray Bynum Bldg.

Tex., Galveston—J. Levy & Bro., 2220 F St., let contract to J. R. Holden for \$35,000 hollow tile and brick veneer apartment building, funeral home and garage.

Tex., Houston—Sherman Hotel Co., care Stanley Bros., let contract to Bellows-MacLay Construction Co., Kirby Bldg., Dallas, for erection \$350,000, five-story and basement hotel; brick, stone, tile and reinforced concrete, passenger elevator; Boyle & Carrington, Archts., 1890 Caruth St.; Gardner & Howe, Struct. Engrs., Kirby Bldg., both Dallas.*

Tex., Houston—Jacobe Brothers Electric Co., 1014 Prairie Ave., has electrical contract for \$1,250,000 San Jacinto Hotel under construction for National Bond & Mortgage Co.; Dixie Heating & Ventilating Co., 109 Fannin St., heating, ventilating and plumbing; C. R. Berry Co., Contrs., First National Bank Bldg.; Jos. Finger, Archt., Keystone Bldg.*

Tex., Paducah—Frank Morgan awarded contract at \$25,000 for erection hotel.

Tex., San Antonio—Clarence Garrett, Maverick Bldg., let contract to M. A. McEachern, 800 Gillespie St., San Antonio, for \$45,000, 2-story, brick veneer apartment house, Harrington Place and Broadway; J. I. White, Archt., Houston Bldg.

Tex., Wharton—W. J. Ewart let contract to J. L. Williams for \$11,000 two-story apartment building; four 5-room suites.

W. Va., Huntington—H. R. Wilk, 565 Thirteenth Ave., let contract to Kilgore & Tucker for \$20,000, five-family apartment house,

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cost \$23,187; Carl R. Couch, Archt., 713½ Franklin St.*

Ga., Columbus—W. C. Whitaker has contract for erection addition to Columbus Industrial High School; cost \$20,000; work started.

La., New Orleans—Societe Catholique d' Education Religieuse et Litteraire let contract to Geo. J. Glover Co., Inc., Whitney Bldg., for \$19,939, one-story hall on Canal St. side of Church of Immaculate Conception, Baronne and Canal Sts.

La., Shreveport—Board of Education let contract to Glassell-Wilson Co., Inc., Sinclair Bldg., at \$47,976 for 2-story, brick, reinforced concrete, fireproof, 16-room school building; Edward F. Neild, Archt., 1212 City Bank Bldg.

Mo., Butler—Board of Education let contract to D. M. Wall & Son, 2617 Agnes Ave., Kansas City, for gymnasium and study hall at high school; cost \$29,975.*

N. C., Dobson—Surry County School Board let contract to D. H. Cooke for erection 10-room schools at Dobson and Flat Rock; also schools at Flat Branch, Little Richmond, Copeland and White Plains.

N. C., White Plains—See N. C., Dobson.

N. C., Winston-Salem—Forsyth County Board of Education, T. H. Cash, Supt., let contract at \$64,864 to Acme Lumber Co., Kernersville, for erection South Fork Consolidated School; one-story, 16 classrooms, auditorium to seat 1000, Northup & O'Brien, Archts., Starbuck Bldg.*

Okl., Braman—School Board let contract to erect 80x134 ft. high school.

Okl., Loyal—School Board let contract at \$14,800 to H. H. Dohe, Okeene, for school building.

Okl., Oklahoma City—Board of Education, J. R. Barton, Supt., awarded following contracts: School for Crippled Children, R. M. Crissman, 1805 W. Eighth St., at \$34,844; Cook & McDonald Co., plumbing, \$7979; finishing Webster and Harding Junior High Schools, Campbell & Price Construction Co., 603½ W. Main St., \$24,501; work at Capitol Hill High School, Holmboe Co., 424 W. Second St., \$10,235; Roosevelt Junior High School, Kreipke Construction Co., Hersh Bldg., \$15,795.*

S. C., Paris (R. D. from Greenville)—Board of Trustees Paris School District, W. F. Roberts, Chmn., let contract to J. P. Rosamond, Route No. 5, Greenville, for \$20,000, 2-story, brick and hollow tile, 116x51.8-ft. school building; concrete foundation, wood floors, tin roof; F. H. & J. G. Cunningham, Archts., 201-A East Coffee St., Greenville. [See Machinery Wanted—Hollow Tile; Steel Sash and Trim; Plaster Board; Rolling Partitions; Flooring (Hardwood).]*

S. C., Swannanoa—Buncombe County Board of Education, A. C. Reynolds, Supt., Asheville, let contract at \$121,850 to Palmer-Spivey Construction Co., 404 S. Tryon St., Charlotte, for 2-story, 20-room, brick and concrete high school; Raleigh Iron Works, 1240 West St., Raleigh, heating, \$7797; Union Plumbing Co., 23 Broadway, Asheville, plumbing, \$5492; W. H. Lord, Archt., 17½ Church St.*

Tenn., Athens—School Board let contract at \$17,862 to D. W. Duggan for erection school for colored children; 6 classrooms, brick veneer, steam heat; Manley, Young & Meyers, Archts., Knauff Bldg., Knoxville.

Tenn., Oakdale—City and County Board of Education rejected bids for high school; labor under supervision of A. S. Wetherford.*

Tenn., Tusculum, R. Sta. Greeneville—Tusculum College, Dr. C. O. Gray, Pres., let contract to Kingslover & Fudale, Bristol, for gymnasium and swimming pool; gymnasium to seat 2000 will serve as auditorium; pool 25x75 ft., 4 to 9 ft. deep.*

Tex., Alto—Board of Education let contract at \$21,259 to R. B. Shearer, Lukfin, for addition to school building; tar and gravel roof, metal ceilings; C. H. Leinbach, Archt., 605 Central Bank Bldg., Dallas.*

Tex., Dallas—Southern Methodist University, Horace M. Whaling, Jr., V.-P., let contract at \$49,700 to Bellows-MacLay Construction Co., Kirby Bldg., to complete Hyer Hall of Science; work includes plastering, woodwork, floors, heating, plumbing and wiring; DeWitt & Lemmon, Archts., 507 S. W. Life Bldg.*

Tex., Katy—Board of Education, H. E. Romack, Sec., let contract at \$26,650 to J. C. Ray, 5018 Columbia Ave., Dallas, for 2-story, 122x45 ft. brick addition and remodeling school; heating and plumbing, Wyllie & Calvert, Houston, \$6600; C. H. Leinbach, Archt., 605 Central Bank Bldg., Dallas.*

Tex., Lubbock—Board of Education let contract to Sampson Construction Co. at \$57,500 for 2-story and part basement, 56x157-ft., brick, stone, reinforced concrete Grade School building; Curd-Garten Co., Childress, heating and plumbing at \$7681; Guy A. Carlander, Archt., 15 Massie Bldg.

Tex., Mt. Pleasant—Board of Education let contract to Goodbar & Page, 1607 Caruth St., Dallas, at \$52,900, for construction of high school; also negro school building and remodeling present high school; Smith & Praeger, Archts., Paris.*

Va., New Castle—Craig County Board of Education, care O. W. Eans, let contract to J. R. Campbell, Clifton Forge, at about \$33,000, for construction of school at New Castle and to E. M. Lamb for \$25,000 school at Barbour's Creek.

W. Va., Morgantown—State Board of Control, Jas. S. Lakin, Pres., Charleston, let contract at \$212,000 to Chas. D. Keyser, Bellaire, Ohio, for erection Women's Educational Bldg. at West Virginia University; brick, reinforced concrete and frame; Davis, Dunlap & Barney, Archts., 1805 Walnut St., Philadelphia, Pa.; Otto H. Genter, Jr., Engr., 116 S. 16th St., Philadelphia.*

W. Va., Moundsville—Marshall County School Board, J. Sherman Welch, Supt., let contract to E. R. Ray, Cameron, for 4-room school at Round Bottom, Clay Dist.; cost \$10,000; brick and frame.

W. Va., Salem—State Board of Control, Jas. S. Lakin, Pres., Charleston, let contract to Post & Westfall, Buckhannon, for erection Salem Industrial School for Girls; cost \$125,000; plumbing, C. L. Weber, 116 W. Main St.; electrical contract, C. Ray Connor Electrical & Plumbing Co., 609 W. Pike St.; brick, Thornton Fire Brick Co., Goff Bldg., all Clarksburg; excavation, Salem Bridge Co.; T. T. Samsbury, Archt., Citizens Guaranty Bldg., Parkersburg.*

Stores

Ala., Marion—Marshall Grocery Co., A. J. Marshall, Pres., began work on brick store building.

Ala., Marion—A. J. Marshall, Greensboro St., started work on 1-story, 50x75-ft. brick grocery store building; cost \$8000 without furnishings and equipment; concrete foundation, tin roof, concrete and wood floors; J. W. McKell, Archt., Selma; J. A. Wood, Contr.

Ark., Marked Tree—N. J. Hazel let contract to erect three brick business buildings.

Fla., Bradenton—Dr. J. C. Walter, Springfield, Ill., started work on \$175,000 Walcaid Building, Washington Ave. and Court St.; 19,000 sq. ft. floor space, 23 shops, 20 offices; P. H. Lorenz, Contr., Mira Mar Bldg., Sarasota.

Fla., Miami—T. J. Bell, 610 S. W. 14th Ave., started work on \$20,000 store building; 40x100 ft., one story, cement floors, composition roof; E. L. Robertson & L. R. Patterson, Archts., Calumet Bldg.*

Ga., Atlanta—Otis Elevator Co., 20 E. Harris St., has permit for installation 14 elevators in Davison-Paxon-Stokes and Macy department store building, Peachtree and Ellis Sts.; cost \$225,000.

La., New Orleans—Porter Clothing Co., Carondelet and Gravier Sts., erecting \$10,000 mezzanine floor; John Riess, Contr., Carondelet Bldg.

Miss., Columbia—W. B. Barnes let contract to Guy Burt for brick building on Second St.

Miss., Meridian—M. R. Adams let contract to L. B. Priester for erection three stores, Front St. and 22d Ave.

Mo., St. Louis—J. A. Billings, 7713 Virginia St., will erect \$10,000 addition to 2-story store and tenement building, 7711-13 Virginia St., 50x58 ft., brick, composition roof, hot water heat; F. Vairo, Archt.-Bldr., 128 W. Koehn St.

Mo., St. Louis—Wright Investment Co., Liberty Central Bank Bldg., let contract to E. David House Moving Co., Wainwright Bldg., to move and remodel 3-story store and tenement building, 1530-34 Olive St.; cost \$10,000, brick.

Mo., Webster Groves (Sta. St. Louis)—Wm. A. Straub, 1116 Gray St., let contract to J. H. Berg, 504 W. Kirkman St., for \$10,000, 50x85 ft. brick building, 40 W. Lockwood St.

Mo., Webster Groves (Sta. St. Louis)—Julius Kruse, Webster Groves, let contract to Buhaack & Co., 2623 Texas Ave., for \$22,000, two-story brick store and dwelling, 2721 Sutton Ave.; Gerhard Becker, Archt., 425 Georgia St.

Tenn., Chattanooga—Jas. M. Shaw Co., Ninth and Market Sts., let contract to Smith Bros., 211 E. Tenth St., for store improvement, install show windows, construct entrance, etc.

Tenn., Memphis—Tennessee Realty Co. let contract to H. A. McGuire, Falls Bldg., for four brick veneer stores; cost \$13,000.

Tex., Ozona—Mrs. Mary Perner let contract to Anderson Bros., 500 N. Cotton St., El Paso, for \$20,145 store building; one story, 80x76 ft., brick and reinforced concrete; Swartz & Hamberlin, Archts., 415-16 Central Natl. Bank Bldg., San Angelo.

Tex., San Antonio—J. M. Oldham, 135 Porter St., awarded contract at \$26,558, for construction of 1-story, brick and reinforced concrete business building on S. Flores St.; Graham & Collins, 315 W. Commerce St., electric work at \$227.

W. Va., Matewan—“Sailor” McCoy let contract to Harley Hope for \$33,000 building for stores, apartments and offices; L. J. Dean, Archt., Simms-Keller Bldg., Huntington.

W. Va., Wheeling—Morris Graff, 10 Edgewood St., started construction \$50,000, three-story, brick and tile store and apartment building, National Road and Locust St.; Geo. W. Petticord, Archt. See Machinery Wanted.*

Theaters

Ala., Gadsden—Crescent Amusement Co., Harry Sudkum, Vice-Pres., 215 Fifth Ave., N., Nashville, Tenn., let contract to W. H. Mayben & Son for additions and improvements to Imperial Theater; M. & A. Electric Co., lighting contract.*

Fla., Miami—Paramount Enterprises, Inc., Harry A. Leach, Gen. Mgr., Olympia Bldg., let contract to C. A. Taylor, 250 N. E. 19th St., for \$75,000 theater, 73 E. Flagler St.; 25 ft. frontage, seating capacity 936, steel, reinforced concrete and tile; Sculthorpe & Noonan, Archts., Townley Bldg.*

Ga., Valdosta—Aetna Iron & Steel Co., 520 E. Eighth St., Jacksonville, awarded steel contract for \$150,000 theater being erected by C. C. Taylor and Wm. S. West; R. N. McEachren, Contr.*

La., New Orleans—Alsina Bros., let contract to Lino F. Delarosa, Balter Bldg., for \$50,000 theater, Marigny and Claiborne Sts.; steel frame, hollow tile and stucco, composition and tile roof, sprinkler system; A. H. Ehrling, Archt., 1124 Peniston St.*

Md., Baltimore—Marcus Loew Interests, 1540 Broadway, New York, employed John Eberson, Archt., 200 W. 57th St., New York, and 212 E. Superior St., Chicago, design extensive improvements to Century, Parkway

Theaters and Century Roof; Century to be revamped to include additional entrance and exit facilities, modeled and painted decorations, vestibule and grand lobby to be gutted and remodeled, auditorium lobby re-decorated, new organ and organ grille installed, new lighting system and fixtures, new ventilating system together with 25-ton refrigerating unit, etc.; Ornamental plaster, Architectural Decorating Co., 1600 Jefferson St.; decorating, Michel Angelo Studios, 212 E. Superior St., and Gustav A. Brand & Co., 1428 S. Michigan Ave.; lighting fixtures, Victor S. Pearlman & Co., 533 W. Wabash Ave., all Chicago; scenery and stage setting, Volland Scenic Studios, 3731 Cass Ave., St. Louis, Mo.; electric wiring, Edwards Electric Construction Co., 70 E. 45th St., New York; general contract in charge of Loew Construction Department through Baltimore sub-contractors; Parkway to be redecorated, re-seated, repainted and new organ installed; work in hands of local contractors; Century roof to be remodeled and Spanish atmospheric one-floor cinema to be built; work includes carpentry, ornamental plaster, statuary, electric lighting fixtures, wiring, decorating, carpets, draperies, opera chairs, plumbing, rubber tile flooring, stage settings, electric signs, etc.; work in charge of L. Fleischman, Gen. Mgr. of Loew Construction Department.*

Mo., Kansas City—Manhattan Construction Co., 615 Pioneer Trust Co. Bldg., has contract for erection theater, 4606 Troost Ave., R. L. Willis, 5037 Michigan Ave., interior; 150 ft. frontage; seating capacity 1600; 9 storerooms on first floor; Shepard & Wiser, Archts., 1208 R. A. Long Bldg.

S. C., Aiken—Clara Harrigal, owner Alken Inn, let contract to J. R. Stokes for erection \$10,000 brick and tile theater, Richland Ave.; 35x170 ft.

Tex., Harrisburg—J. M. L. West, 3002 N. Main St., Houston, has contract for \$22,000 moving-picture theater.

Warehouses

Ala., Huntsville—H. C. Blake has contract for heating, plumbing and electrical work for warehouse for Huntsville Wholesale Nursery Co., for which O. E. Baxter has general contract at \$32,000; R. L. Gum, sheet metal; one story, 120x230 ft., brick, metal roof, concrete floors and foundation; E. L. Love, Archt.; foundation work in progress.*

Fla., Jacksonville—Kelly Furniture Co., 2601 Main St., let contract to R. J. Gallespie, Baldwin Bldg., for \$55,000 addition to warehouse, Main and 13th St.; 2 stories, brick.

N. C., Winston-Salem—Liberty Street Storage Co., E. D. Vaughn, Pres., let contract to Fogle Brothers Co., 202 Belews Creek Rd., for three additional sections to storage warehouse, west side Liberty St.; 34x90 ft. and 50x90 ft., concrete and brick, reinforced concrete foundation; cost \$50,000.

Tenn., Memphis—Following sub-contracts awarded for branch warehouse for Pittsburgh Steel Co., Pittsburgh, Pa., for which W. W. Wessel Construction Co., N. Front St., Memphis, has general contract at \$60,337: Hughes Heating Co., 672 Madison Ave., heating; McCrory Electric Co., Builders Exchange, electrical work; Cronin, Baker & Lindall, 339 Madison Ave., plumbing; Memphis Elevator Co., 263 Union Ave., freight elevator; Joe L. Wallace, Archt., Bank of Commerce and Trust Bldg.; all Memphis.*

Tex., Waco—Gulf Refining Co. let contract at \$40,000 to J. F. Cason, 1202 N. 18th St., for brick and concrete warehouse and office building.

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Adhesive Plaster (Zinc Oxide).—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids July 23 for 150 doz. zinc oxide adhesive plaster, 1-in., 10 yds., packed 12 spools in carton.

Air Compressors.—Wilson-Hock Co., Hopewell, Va.—Wants air compressors suitable for 25-ton capacity ice plant; straight-line Ingersoll-Rand preferred; steam or electric driven compressor considered.

Air Compressor.—L. J. Breed Equipment Co., 811 James Bldg., Chattanooga, Tenn.—Wants second-hand portable compressor, 100 ft. capacity; Tennessee delivery.

Automobile Sign Tags.—Ben H. Harvin, Harvin, S. C.—Wants to correspond with manufacturers of automobile sign tags.

Baler.—Wilson-Hock Co., Hopewell, Va.—Wants baler suitable for baling wood shavings for storage.

Beading Machine.—See Metal Working Machinery.

Belting.—See Blower, etc.

Blower, etc.—W. A. Carver, Rougement, N. C.—Wants one shaving blower 25 to 35 in. with intake about 12-in. and pulley 8x1c. also belting.

Boilers.—Wilson-Hock Co., Hopewell, Va.—Wants two 100-h.p. and two 150-h.p. used horizontal, return, tubular boilers, good for 125-lb. pressure preferred.

Boilers.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids July 26 for 2 portable fire box boilers of the down draft type.

Breakwater.—U. S. Engineer Office, Providence, R. I.—Receives bids July 23 to repair breakwater at Point Judith Harbor, R. I.

Brick.—Ora Hall, Exchange Bank, Perry, Okla.—Wants prices on brick for \$25,000 church.

Bridge.—Abilene, Tex., will build and repair 13 bridges. See Construction News—Roads, Streets, Paving.

Bridge.—Clarkburg, W. Va., will build 2 bridges. See Construction News—Roads, Streets, Paving.

Bridge.—State of Kentucky will build 5 bridges. See Construction News—Roads, Streets, Paving.

Bridge.—Knoxville, Tenn. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—State Highway Comm., Caldwell, Tex., plans several bridges. See Roads, Streets, Paving.

Bridge.—Houston, Tex. See Construction News—Bridges, Culverts, Viaducts.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

CONSTRUCTION DEPARTMENT

Bridge.—Galveston, Tex. See Construction News—Bridges, Culverts, Viaducts.

Canning Machinery.—Thomas Boyd, 3036 Euclid Ave., Cleveland, Ohio—Wants to correspond with manufacturers of machinery to can vegetables, fruits, etc.

Casket Materials.—W. V. Knott, Chattahoochee, Fla.—Wants data and prices on materials used in manufacture of coffins and caskets.

Cast Stone.—Lindsey & Kilmer, Greenville, Tex.—Want prices on cast stone for \$10,000 church, McKinney, Tex.

Cast Stone.—E. F. Rittenberry, 303 Blackburn Bldg., Amarillo, Tex.—Wants prices on cast stone for \$35,000 school at Friona, Tex.

Cast Stone.—Summer Sollitt Co., 600 Natl. Bank of Commerce Bldg., San Antonio, Tex.—Wants prices on cast stone for \$40,000 passenger station, Brownsville, Tex.

Cast Stone.—Fanningo Realty Co., Ponce de Leon Blvd. and Alcazar Ave., Coral Gables, Miami, Fla.—Wants prices on cast stone for \$80,000 store and office building.

Cast Stone.—Shrouds-Stoner Co., Inc., Room 12, Gulf & Ship Island Bldg., Gulfport, Miss.—Wants prices on cast stone for \$200,000 Hotel, Pascagoula, Miss.

Cast Stone.—Howell Construction Co., 608 Marion Bldg., Augusta, Ga.—Wants prices on cast stone for \$75,000 school, Waynesboro, Ga.

Catalogs, etc.—Thomas Boyd, 3036 Euclid Ave., Cleveland, Ohio—Wants prices and catalogs of machinery for canning vegetables, fruits, etc.

Cement.—Ora Hall, Exchange Bank, Perry, Okla.—Wants prices on cement for \$25,600 church.

Chairs.—See Desks and Chairs, etc.

Crooseted Piles, etc.—Supt. of Lighthouses, New Orleans, La.—Receives bids August 5 to furnish labor and material to erect 40 single crooseted piles and 33 three-pile crooseted daymarks along Corpus Christi Channel, Tex.

Crusher (Gyratory).—Woodstock Slag Corp., Southern Railway Bldg., Birmingham, Ala.—Wants one No. 8 gyratory crusher in good condition for prompt delivery; wire or write.

Crushing Rolls.—E. W. Cooper, Engr., 510½ Deaderick St., Nashville, Tenn.—Wants pair crushing rolls for rock asphalt.

Derrick.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Receives bids Aug. 5 to furnish electrically operated stiff-leg derrick. Blank forms and information (Circular 1746) on application to offices of Panama Canal: Asst. Purchasing Agents at Fort Mason, San Francisco, Cal.

Desks and Chairs, etc.—District Comms., Room 509 Dist. Bldg., Washington, D. C.—Receives bids July 28 to furnish and deliver pupils' desks, chairs and tables.

Dishwashing Machines.—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids Aug. 3 for dishwashing machines.

Electric Blue Print Machine.—S. S. Martin, Director of Finance, St. Petersburg, Fla.—Receives bids July 26 to furnish complete one electric blue print machine with dryer.

Electric Griddle and Toaster.—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids July 26 for electric griddle and toaster for U. S. Veterans' Hospital, Hot Springs, S. D.

Electric Ranges.—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids July 30 for electric ranges for U. S. Veterans' Hospital, Hot Springs, S. D.

Electric Refrigerators.—John Case, 211 E. High St., Jefferson City, Mo.—Wants prices on electric refrigerators for residence.

Electric Refrigerators.—Chas. Harris, 710 Felder Ave., Montgomery, Ala.—Wants prices on electric refrigerators for residence.

Electric Refrigerators.—H. W. Underhill Construction Co., Third and Pierce Sts., Amarillo, Tex.—Wants prices on electric refrigerators for 13-story hotel.

Electric Refrigerators.—C. B. Gleckler, P. O. Box 1461, Vero Beach, Fla.—Wants prices on electric refrigerators.

Electric Refrigerators.—Shrouds-Stoner Co., Inc., Room 12, Gulf & Ship Island Bldg., Gulfport, Miss.—Wants prices on electric refrigerators for \$200,000 hotel, Pascagoula, Miss.

Electric Toaster.—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids July 26 on 16 slice capacity electric toaster; The Edison Electric Appliance Co.'s No. 433 T 10, or equal.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Manufacturers Record

on rubber tile floors for \$75,000 school, Waynesboro, Ga.

Flooring.—Fanningo Realty Co., Ponce de Leon Blvd. and Alcazar Ave., Coral Gables, Miami, Fla.—Wants prices on tile and hardwood flooring for \$80,000 store and office building.

Foundry Equipment.—Cunningham Machine Works, Inc., 1529 Texas Ave., Shreveport, La.—Wants all kinds of equipment for small brass foundry, including furnace to burn natural gas.

Furnace.—Cunningham Machine Works, Inc., 1529 Texas Ave., Shreveport, La.—Wants furnace for foundry to burn natural gas.

Garbage and Refuse Destructor.—City of Memphis, Tenn., Rowlett Paine, Mayor.—Receives bids August 17 to furnish labor, materials, hauling and tools for construction of garbage and refuse destructor; capacity from 60 to 80 tons per 10 hrs.; fireproof construction, steel and brick or concrete and brick; C. C. Pasby, City Clerk.

Glassware, etc.—Paramount Manufacturing Co., Inc., 1525 English St., High Point, N. C.—Wants to correspond with manufacturers of glass ware and nickelware for smoking sets.

Gravel.—State of Louisiana. See Construction News—Roads, Streets, Paving.

Gravel.—Georgetown, Tex. See Construction News—Roads, Streets, Paving.

Grinder.—R. P. Johnson (Mchly. Dealer), Wytheville, Va.—Wants prices on automatic band saw lap grinder to grind 12-in. saws.

Grooving Machine.—See Metal Working Machinery.

Hampers.—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids August 26 for 12 wash hampers, khaki brown woven canvas; W. T. Lane & Bros. No. 63 or equal.

Hardware (Casket and Coffin).—W. V. Knott, Chattahoochee, Fla.—Wants to correspond with manufacturers of or dealers in coffin and casket hardware.

Hauling and Collecting Refuse.—Board of Awards, F. A. Doffield, City Register, Baltimore, Md.—Receives bids August 4 for collecting and hauling of refuse and rubbish for period of 5 years; information at Bureau of Street Cleaning, City Hall Annex No. 2, Guilford Ave.; Wm. A. Larkin, Engr. of Street Cleaning.

Heating Plant.—Treasury Dept., Supervy. Archt's Office, Washington, D. C.—Receives bids Aug. 11 to furnish and install hot water heating plant, etc., in building No. 17, and wood water tank, etc., at U. S. Quarantine Station at Craney Island, Fort Monroe, Va.

Incinerators.—Wyatt C. Hedrick, 1005 First Natl. Bank Bldg., Fort Worth, Tex.—Wants prices on incinerators for \$400,000 hospital.

Incinerators.—C. B. Gleckler, P. O. Box 1461, Vero Beach, Fla.—Wants prices on incinerators.

Incinerators.—Morris Graff, 10 Edgelawn St., Wheeling, W. Va.—Wants prices on incinerators.

Incinerators.—H. W. Underhill Construction Co., Third and Pierce Sts., Apopka, Tex.—Wants prices on incinerators for 13-story hotel.

Incinerators.—Warren, Knight & Davis, 1603 Empire Bldg., Birmingham, Ala.—Wants prices on incinerators for \$16,000 dwelling.

Jaw Crusher.—E. W. Cooper, Engr., 510½ Deaderick St., Nashville, Tenn.—Wants one large size jaw crusher for rock asphalt.

Jaw Crusher.—L. J. Breed Equipment Co., 811 James Bldg., Chattanooga, Tenn.—Wants 42x60 or 48x60 or 60x84 jaw crusher; Tennessee delivery.

Laboratory Apparatus.—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids July 26 for laboratory apparatus.

Laundry Machinery.—Adam Wise, Box 1038, Stuart, Fla.—Wants extractor for use in wet wash laundry.

Leather, etc.—St. Petersburg Shoe Factory, Inc., I. Terranova, Pres., 10 S. Second St., St. Petersburg, Fla.—Wants to correspond with firms selling leather soles, rubber heels and other necessities for repairing shoes.

Limestone.—Howell Construction Co., 608 Marion Bldg., Augusta, Ga.—Wants prices on limestone for \$75,000 school, Waynesboro, Ga.

Limestone.—Chas. Harris, 710 Felder Ave., Montgomery, Ala.—Wants prices on limestone for brick veneer residence.

Limestone.—State Highway Comsn., Old

Capitol Bldg.—Frankfort, Ky.—Receives bids July 26 for 10,000 tons crushed limestone in bins at quarry site, 1½ miles from Cave City; stone to be 1½ in. down, crusher run, unscreened; Edmondson-Barren County State Proj. 53; also 11,000 tons crushed limestone to meet requirements for waterbound macadam top, Madison County State Proj. 55, Richmond-Lexington Road.

Limestone.—Rev. H. W. Rice, Pastor, M. E. Church, South, Demopolis, Ala.—Wants prices on limestone for brick church.

Limestone.—Warren, Knight & Davis, 1603 Empire Bldg., Birmingham, Ala.—Want prices on limestone for \$16,000 frame dwelling.

Limestone.—M. S. Katz, 710 Madison St., Montgomery, Ala.—Wants prices on limestone for residence.

Limestone.—Rev. I. H. Rose, Wetumpka, Ala.—Wants prices on limestone for \$12,000 church.

Limestone.—Richard Ryan, 800 Monroe St., Montgomery, Ala.—Wants prices on limestone for \$20,000 brick synagogue.

Log Loader.—W. M. Smith & Co., Box 1709, Birmingham, Ala.—Wants good used McGilliet log loader.

Log Washer.—E. W. Cooper, Engr., 510½ Deaderick St., Nashville, Tenn.—Wants double log washer for use in phosphate plant; second-hand equipment.

Lumber.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Receives bids August 4 to furnish white pine, redwood, poplar, white ash and hickory lumber, and creosoted yellow pine of Douglas fir pines. Blank forms and information (Circular 1748) on application to offices of Panama Canal: Asst. Purchasing Agents at Fort Mason, San Francisco, Cal.

Mail Chutes.—C. B. Gleckler, P. O. Box 1461, Vero Beach, Fla.—Wants prices on mail chutes.

Mail Chutes.—H. W. Underhill Construction Co., Third and Pierce Sts., Amarillo, Tex.—Wants prices on mail chutes for 13-story hotel.

Marble.—Shrouds-Stoner Co., Inc., Room 12, Gulf & Ship Island Bldg., Gulfport, Miss.—Wants prices on marble for \$200,000 hotel, Pascagoula, Miss.

Marble.—C. B. Gleckler, P. O. Box 1461, Vero Beach, Fla.—Wants prices on marble for \$35,000 apartment building.

Medical Office-Clinic Building Furnishings, etc.—Dr. W. S. Prather, S. Jackson St., Americus, Ga.—Wants prices on equipment, \$25,000, for medical office and clinic building.

Metal Ceilings.—E. F. Rittenberry, 303 Blackburn Bldg., Amarillo, Tex.—Wants prices on metal ceilings for \$35,000 school at Friona, Tex.

Metal Ceilings.—Ora Hall, Exchange Bank, Perry, Okla.—Wants prices on metal ceilings for \$25,000 church.

Metal Ceilings.—Morris Graff, 10 Edgelawn St., Wheeling, W. Va.—Wants prices on metal ceilings for \$50,000 building.

Metal Doors.—Dade County Board of Public Instruction, Chas. M. Fisher, Supt., Miami, Fla.—Wants prices on metal doors.

Metal Doors.—H. W. Underhill Construction Co., Third and Pierce Sts., Amarillo, Tex.—Wants prices on metal doors for 13-story hotel.

Metal Doors, Sash and Trim.—R. B. Baker, Newberry, S. C.—Wants prices on metal doors, steel sash and trim for 1-story and basement wholesale grocery building.

Metal Doors.—Shrouds-Stoner Co., Inc., Room 12, Gulf & Ship Island Bldg., Gulfport, Miss.—Wants prices on metal doors for \$200,000 hotel, Pascagoula, Miss.

Metal Doors.—C. B. Gleckler, P. O. Box 1461, Vero Beach, Fla.—Wants prices on metal doors for \$35,000 apartment building.

Metal Working Machinery.—Hackley Morrison Co. (Mchly. Dealer), 1708 Lewis St., Richmond, Va.—Wants one pipe folder No. 14; one tin pipe former No. 0381A; grooving machine No. 507A; turning machine No. 542½; wiring machine No. 525½A; slitting down machine No. 561 and one beading machine No. 620; numbers refer to Peck, Stow & Wilson Co.'s catalog.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Receives bids July 29 to furnish steel and manilla rope, wire, marline, steel, copper-bearing iron or steel or pure iron sheets, steel ties, pipe, track bonds, brass, lead, car bolsters, planing machines, combination tables and chairs, electric

ranges, rubber seals, batteries, horns, marine clocks, ship's logs, oars, scales, poultry netting, screening, silverware, hose, leather belting, burlap, tires, inner tubes, window shades, etc. Blank forms and information (Circular 1745) on application to offices of Panama Canal, Asst. Purchasing Agents at 24 State St., New York; 611 Gravier St., New Orleans, La.; Fort Mason, San Francisco, Cal.; also U. S. Engineer offices throughout country.

Motors.—Wilson-Hock Co., Hopewell, Va.—Wants 100 or 125 h.p. slip-ring motor, 3 phase, 60 cycle, 2200 volt, 600 r.p.m. complete with switch controlling resistance; one 7½-h.p. motor, 115 volt, direct connected; one 75-h.p. slip ring, 3 phase, 60 cycle, 900 r.p.m., 2200 volt with switch controlling resistance; one 60-h.p., 900 or 1200 r.p.m., 3 phase, 60 cycle, 2200 volt with switch controlling resistance; also send list of any slip-ring motors not specified above.

Motor and Pump.—Wilson-Hock Co., Hopewell, Va.—Wants 7½ or 10 h.p. electric motor for direct connection to triplex pump; will also consider pump.

Overall Machinery.—Siceloff Manufacturing Co., Lexington, N. C.—Wants prices on machinery to manufacture overalls, including tables, shafting, etc.

Overall Machinery.—S. R. Chavasse, Henderson, N. C.—Wants data and prices on machinery to make overalls and work shirts.

Paper.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids July 23 for 800 lbs. (20 rolls), and 576 lbs. (12 rolls), smooth finish, buff color paper.

Paper.—Dist. Comr., Room 500, District Bldg., Washington, D. C.—Receives bids July 28 to furnish and deliver paper for use in public schools.

Paving.—Cleburne, Tex. See Construction News—Roads, Streets, Paving.

Paving.—Greensboro, N. C. See Construction News—Roads, Streets, Paving.

Paving.—Baton Rouge, La. See Construction News—Roads, Streets, Paving.

Paving.—Milledgeville, Ga. See Construction News—Roads, Streets, Paving.

Paving.—Jacksonville, Fla. See Construction News—Roads, Streets, Paving.

Paving and Grading.—Board of Awards, F. A. Dolfield, City Register, Baltimore, Md.—Receives bids July 28 to grade and pave with cement concrete floor of Northeast market, at Monument and McElroy St.; B. L. Crozier, Ch. Engr.

Pencil Machinery.—Musgrave Pencil Co., Inc., Shelbyville, Tenn.—Wants prices on special pencil machinery.

Petroleum Products.—Board of Awards, F. A. Dolfield, City Register, Baltimore, Md.—Receives bids July 28 to furnish and deliver petroleum products to all city departments; J. Reese Pitcher, City Purchasing Agent.

Pipe (Concrete).—See Sewers.

Pipe.—E. W. Cooper, Engr., 510½ Deaderick St., Nashville, Tenn.—Wants 14,000 ft. of black malleable iron water pipe.

Plaster Board.—M. S. Katz, 710 Madison St., Montgomery, Ala.—Wants prices on plaster board for residence.

Plaster Board.—Ester Lumber Co., 2800 N. 26th St., Birmingham, Ala.—Wants prices on plaster board for \$35,000 office building.

Plaster Board.—J. P. Rosamond, Contr., Route No. 5, Greenville, S. C.—Wants prices on plaster board for \$20,000 Paris school building.

Portable Carbide Lights.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids July 28 to furnish three portable carbide lights; delivery Hampton Roads, Va., Sch. No. 52-1927.

Portland Cement.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids July 27 to furnish 400 bbls. Portland cement; delivery Quantico, Va., Sch. No. 49-1927.

Pulley.—See Blower, etc.

Pump.—See Motor and Pump.

Pump (Centrifugal).—E. W. Cooper, Engr., 510½ Deaderick St., Nashville, Tenn.—Wants centrifugal pump, capacity 700 gal. per min. or more, working against 50-ft. lift; second hand equipment.

Pumps (Fire).—Hackley Morrison Co. (Mchly. Dealer), 1708 Lewis St., Richmond, Va.—Wants one 500 g. p. m. at 100 lb. pressure centrifugal fire pump direct connected to 2200-volt electric motor and one 500 g. p. m. at 100 lb. pressure centrifugal fire pump direct connected to gasoline engine.

Pumps and Motors.—See Fire-Fighting Equipment.

Radio Equipment.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids August 6 for radio equipment.

Ball Box.—John Case, 211 E. High St., Jefferson City, Mo.—Wants prices on mail box for residence.

Railway Maintenance Equipment.—Norfolk & Western Ry. Co., Clyde Cocke, Purchasing Agt., Room 331, N. & W. Bldg., Roanoke, Va.—Receives bids July 28 for 101 cast steel truck bolsters, Contr. Serial No. AA-418; 35 cast steel side frames, Contr. Serial No. AA-419; 1000 carbon steel car axles, Contr. Serial No. AA-420; 200 wrought steel wheels, Contr. Serial No. AA-421.

Residence Furnishings, etc.—Dr. C. H. Shepard, Box 316, Durham, N. C.—Wants prices on equipment, etc., \$4000, for residence.

Road.—Georgetown, Tex. See Construction News—Roads, Streets, Paving.

Road.—State of Alabama will build two roads. See Construction News—Roads, Streets, Paving.

Road.—Anderson, Tex. See Construction News—Roads, Streets, Paving.

Road.—State of Kentucky will build 10 roads. See Construction News—Roads, Streets, Paving.

Road.—State of Maryland will build 4 roads. See Construction News—Roads, Streets, Paving.

Road.—Clarksburg, W. Va., will build 20 roads. See Construction News—Roads, Streets, Paving.

Road.—Abilene, Tex., will build 3 roads. See Construction News—Roads, Streets, Paving.

Road.—Charleston, S. C., will build 2 roads. See Construction News—Roads, Streets, Paving.

Road.—Tampa, Fla., will improve 16 roads. See Construction News—Roads, Streets, Paving.

Road.—Coldsprings, Tex. See Construction News—Roads, Streets, Paving.

Road.—Eagle Pass, Tex., will build 2 roads. See Construction News—Roads, Streets, Paving.

Road.—Madison, Fla. See Construction News—Roads, Streets, Paving.

Road.—Baltimore, Md. See Construction News—Roads, Streets, Paving.

Road.—Gainesville, Fla. See Construction News—Roads, Streets, Paving.

Road.—Morgantown, W. Va. See Construction News—Roads, Streets, Paving.

Road.—State of Louisiana will build 4 roads. See Construction News—Roads, Streets, Paving.

Road Building Machinery.—American Products Corp., James L. Glass, Pres., Obispo 59, Depot 8, Havana, Cuba.—Wants prices on road building machinery for building macadamized roads in Cuba; Mr. Glass advises contracts being let by the Cuban Government for over 1000 miles of macadamized road and contracts will be let only to Cuban concerns.

Road Machinery.—Noxubee County Board of Supervs., Macon, Miss.—Receives bids Aug. 3 for one Western tumble bug; two Adams road maintainers; three 5-ton and four 2-ton best tractors.

Road Roller.—R. P. Johnson (Mchly. Dealer), Wytheville, Va.—Wants one 10-ton D. C. Kelley steam road roller with scarifier.

Rolling Partitions.—J. P. Rosamond, Contractor, Route No. 5, Greenville, S. C.—Wants prices on rolling partitions for \$20,000 Paris school building.

Rolling Partitions.—Rev. I. H. Rose, Wetumpka, Ala.—Wants prices on rolling partitions for \$12,000 church.

Rolling Partitions.—Richard Ryan, 800 Monroe St., Montgomery, Ala.—Wants prices on rolling partitions for \$20,000 synagogue.

Rolling Partitions.—J. W. Williams, P. O. Box 36, Lumberton, Miss.—Wants prices on rolling partitions for \$13,000 Masonic Temple.

Rolling Partitions.—Shrouds-Stoner Co., Inc., Room 12, Gulf & Ship Island Bldg., Gulfport, Miss.—Wants prices on rolling partitions for \$200,000 hotel, Pascagoula, Miss.

Rolling Partitions.—Ora Hall, Exchange Bank, Perry, Okla.—Wants prices on rolling partitions for \$25,000 church.

Rolling Partitions.—C. B. Gleckler, P. O. Box 1461, Vero Beach, Fla.—Wants prices on rolling partitions for \$35,000 apartment building.

Roofing.—C. B. Gleckler, P. O. Box 1461, Vero Beach, Fla.—Wants prices on composition and tile roofing for \$35,000 apartment building.

CONSTRUCTION DEPARTMENT

Roofing (Composition).—Rev. C. T. Squires, Pastor, Fourth Presbyterian Church, Greenville, S. C.—Wants prices on composition roofing.

Roofing (Composition).—Lindsey & Kilmer, Greenville, Tex.—Want prices on composition roofing for \$40,000 church, McKinney, Tex.

Roofing (Composition).—Rev. H. W. Rice, Pastor, M. E. Church, South, Demopolis, Ala.—Wants prices on composition roofing for church.

Roofing (Composition).—Warren, Knight & Davis, 1603 Empire Bldg., Birmingham, Ala.—Wants prices on composition roofing for \$16,000 dwelling.

Roofing.—Dade County Board of Public Instruction, Chas. M. Fisher, Supt., Miami, Fla.—Wants prices on composition roofing.

Roofing.—Morris Graff, 10 Edgelawn St., Wheeling, W. Va.—Wants prices on composition roofing for \$50,000 building.

Roofing (Composition).—Faningo Realty Co., Ponce de Leon Blvd. and Alcazar Ave., Coral Gables, Miami, Fla.—Wants prices on composition roofing for \$80,000 store and office building.

Roofing (Composition).—Chas. Harris, 710 Felder Ave., Montgomery, Ala.—Wants prices on composition roofing for residence.

Roofing (Composition).—M. S. Katz, 710 Madison St., Montgomery, Ala.—Wants prices on composition roofing for residence.

Roofing (Composition).—Rev. I. H. Rose, Wetumpka, Ala.—Wants prices on composition roofing for \$12,000 church.

Roofing (Composition).—J. W. Williams, P. O. Box 36, Lumberton, Miss.—Wants prices on composition roofing for \$13,000 Masonic Temple.

Roofing Tile.—John Case, 211 E. High St., Jefferson City, Mo.—Wants prices on roofing tile for residence.

Roofing Tile.—Estes Lumber Co., 2000 N. 26th St., Birmingham, Ala.—Wants prices on roofing tile for \$35,000 office building.

School Furniture and Equipment.—Board of Awards, F. A. Dolfield, City Register, Baltimore, Md.—Receives bids July 28 for special furniture and equipment, athletic supplies, window shades, playground and gymnasium equipment for Department of Education; John H. Roche, Sec., Board of School Comms., Madison and Lafayette Aves.

Sewer.—H. S. Borneman, Sec., Council Borough Hall, Norristown, Pa.—Receives bids August 11 to construct southwest main intercepting sewer, including 1350 ft. of 15-in. vitrified pipe in open cut; 2000 ft. of 15-in. vitrified pipe in tunnel; 10 manholes and miscellaneous appurtenances; Albright & Mehus, Consit. Engr., 1502 Locust St., Philadelphia, Pa.

Sewer.—First Sewerage District, City Hall, Lake Charles, La.—Receives bids July 28 for sewer on St. Andrew St.

Sewers.—City of Huntington, W. Va., H. H. Fielder, Clk.—Receives bids July 26 for trunk line sewer along Four Pole Creek, approximately 6300 ft.; A. B. Maupin, City Engr.

Sewers.—City of Tampa, Fla., Chas. N. Tucker, Pur. Agt.—Receives bids July 27 for sanitary sewer system! 2760 ft. of 8-in. concrete pipe; 81 8x4-in. Y's; 9 Class A manholes.

Sewers.—District Comms., Room 427, District Bldg., Washington, D. C.—Receives bids July 27 for 7215 ft. of sewer.

Shafting.—See Overall Machinery.

Shovel.—Phil J. Gormley, Box 235, Lexington, Ky.—Wants 3/8-yd. capacity gasoline driven shovel, crawler type preferred; state condition, etc.

Sidewalks.—St. Petersburg, Fla. See Construction News—Roads, Streets, Paving.

Sidewalks.—Melbourne, Fla. See Construction News—Roads, Streets, Paving.

Sprinklers.—C. B. Gleckler, P. O. Box 1461, Vero Beach, Fla.—Wants prices on sprinklers.

Sprinkler System.—R. B. Baker, Newberry, S. C.—Wants prices on sprinkler system for 1-story and basement wholesale grocery building.

Steel Cages.—Martin County Comms., H. N. Gaines, Chmn., Stuart, Fla.—Receives bids July 27 to construct steel cages for temporary County Jail; E. H. Gibson, County Engr.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Manufacturers Record

Tile.—Howell Construction Co., 608 Marion Bldg., Augusta, Ga.—Wants prices on hollow tile for \$75,000 school, Waynesboro, Ga.

Tile.—E. F. Rittenberry, 303 Blackburn Bldg., Amarillo, Tex.—Wants prices on hollow tile for \$35,000 school at Friona, Tex.

Tile.—Summer Sollitt Co., 600 Natl. Bank of Commerce Bldg., San Antonio, Tex.—Wants prices on hollow tile for \$40,000 passenger station at Brownsville, Tex.

Tin Pipe Former.—See Metal Working Machinery.

Toys.—Ben H. Harvin, Harvin, S. C.—Wants to correspond with manufacturers in the United States and importers of toys.

Tractors.—See Road Machinery.

Vacuum Cleaners.—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids July 29 for vacuum cleaners.

Vaults.—C. B. Gleckler, P. O. Box 1461, Vero Beach, Fla.—Wants prices on vaults.

Vaults.—Wyatt C. Hedrick, 1005 First Natl. Bank Bldg., Fort Worth, Tex.—Wants prices on vaults for \$400,000 hospital.

Vault Lights.—C. B. Gleckler, P. O. Box 1461, Vero Beach, Fla.—Wants prices on vault lights.

Ventilators.—C. B. Gleckler, P. O. Box 1461, Vero Beach, Fla.—Wants prices on ventilators for \$35,000 apartment building.

Ventilators.—Richard Ryan, 800 Monroe St., Montgomery, Ala.—Wants prices on ventilators for \$20,000 synagogue.

Ventilators.—Shrouds-Stoner Co., Inc., Room 12, Gulf & Ship Island Bldg., Gulfport, Miss.—Wants prices on ventilators for \$200,000 hotel, Pascagoula, Miss.

Ventilators.—Estes Lumber Co., 2600 N. 26th St., Birmingham, Ala.—Wants prices on ventilators for \$35,000 office building.

Water Works.—Martin County Valley View Water Control and Improvement Dist. No. 1, W. H. Clements, Pres., Stanton, Tenn.—Receives bids Aug. 2 for furnishing equipment and labor for water works; drilling test holes and 3 water wells, approximately 100 ft. deep and cased; 4-in. diam. and equipping with windmills, towers, gasoline engines and well houses; constructing 3 reinforced concrete storage reservoirs, capacity 10,000 gals. each; laying 30 miles of galvanized screw pipe for 2 to 1/2 in. diam. in 2-ft. trench; Hawley & Roberts, Consult. Engrs., 403 Cotton Exchange Bldg., Fort Worth.

Well Drilling Outfits.—R. P. Johnson (McH. Dealer), Wytheville, Va.—Wants prices on second-hand well drilling outfit; either portable or traction, for wells of 300 to 400 ft.

Wire Glass.—C. B. Gleckler, P. O. Box 1461, Vero Beach, Fla.—Wants prices on wire glass for \$35,000 apartment building.

Wire Glass.—Richard Ryan, 800 Monroe St., Montgomery, Ala.—Wants prices on wire glass for \$20,000 synagogue.

Wire Glass.—Shrouds-Stoner Co., Inc., Room 12, Gulf & Ship Island Bldg., Gulfport, Miss.—Wants prices on wire glass for \$200,000 hotel, Pascagoula, Miss.

Wire Glass.—R. Baer, Newberry, S. C.—Wants prices on wire glass for 1-story and basement wholesale grocery building.

Wire Glass.—Lindsey & Kilmer, Greenville, Tex.—Want prices on wire glass for \$40,000 church, McKinney, Tex.

Wire Grilles.—U. S. Veterans Bureau, Room 701, Arlington Bldg., Washington, D. C.—Receives bids August 10 for wire grilles in buildings Nos. 1, 2 and 3 at U. S. V. Hospital No. 101, St. Cloud, Minn.

Wiring Machine.—See Metal Working Machinery.

Woodworking Machinery.—S. R. Chavasse, Henderson, N. C.—Wants data and prices on machinery for making doors, window frames, toys, etc.

Woodworking Machinery.—The W. Va. and Md. Manufacturing Co., H. H. Rennix, Mgr., Thurmont, Md.—Wants data and prices on machinery to make wood spikes for railroads.

Wrought Iron Grill.—O. L. Allen, 860 W. Webster St., Springfield, Mo.—Wants prices on wrought iron balustrade grill for deck roof railings on \$12,000 dwelling.

X-Ray Developing Powder.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids July 27 for 1000 pkgs. x-ray developing powder, 1 gal. size.

Trade Literature

New De La Vergne Booklet.

"The Relation of Power Costs to Profits" is the name of a booklet published by the De La Vergne Machine Company, 947 East 138th street, New York. It gives much interesting data, and there is a two-page picture of a 260-horsepower De La Vergne vertical type "SI" Diesel oil engine as installed in a municipal power and light plant.

DeLavaud Cast-Iron Pipe.

A booklet of 27 pages has been published by the Robert W. Hunt Company, engineers, whose headquarters are in Chicago, giving full particulars concerning the inspection of cast-iron pipe. The advantages of making cast-iron pipe by the DeLavaud method are described in an article by Frank Grossman, which is reprinted from the Iron Trade Review.

Electric Elevator Installations.

A number of leaflets that are perforated for handy filing have been issued by the General Electric Company, Schenectady, N. Y., concerning their electric elevator equipment and showing buildings in which installations have been made in Los Angeles, St. Louis, Houston, Hollywood, Chicago, Long Beach, Fresno and San Antonio. The printing of these publications is of the first class and the pictures are superior.

Ferro-Chem to Treat Water.

Wheelock-Bogue, Inc., 141 Milk street, Boston, Mass., have published a booklet entitled "Recent Advances in the Theory of Corrosion and in Prevention of Hard Scale and Destructive Oxidation in Boilers and Piping Systems." It was written by John Calder, consulting engineer, of Lexington, Mass., and it considers the advantages of Ferro-Chem machines and Ferro-Chem metal to treat water, the company installing equipment for trial for 60 to 90 days without charge if not satisfactory.

North Carolina Roads Illustrated.

A late issue of "Giant Cement News," published by the Giant Portland Cement Company, Philadelphia, contains a number of interesting and important facts concerning the use of cement for road building, and especially its use in North Carolina. There are pictures showing views on several of the many fine highways in that state and also a quotation from remarks of Governor A. W. McLean as to the influence which has been exerted upon the population by the state's progressive action in creating a superior road system.

Future of the Gas Industry.

The American Gas Association, 332 Madison Avenue, New York, have published a booklet entitled "The 'Picture Ahead' for the Gas Industry." It says: "Homes artificially cooled in the summer and automatically heated in the winter; the substitution for ice of refrigerating machines utilizing gas heat; universal adoption of the temperature method of cooking food; prohibition of the burning of coal in the raw state; and an unpolluted atmosphere free of smoke, ashes, soot and grime—these, in brief, constitute the 'picture ahead' presented by executives of the manufactured gas industry for the consideration of the American people." There are, it is stated, approximately 52,000,000 persons in this country served by gas through stoves, water heaters, space heaters and house-heating installations. About 400,000 new customers are being added annually.

Full-Crawler's New Bulletin.

Details of construction, specifications, uses and the many reasons why Trackson Full-Crawlers are dependable are described and illustrated in a new eight-page 8½x11 bulletin of the Full-Crawler Company, 520 Clinton street, Milwaukee, Wis. The folder is entitled "For Extra Fordson Power." This bulletin explains and shows by sketches and photographs the construction of various parts of the Crawlers and the advantages of such construction. Sixteen action photographs show the Trackson-Fordson performing various work, including fresno work, backfilling, land

clearing, road building and maintenance, excavating, power-scoop work, cemetery work, snow removal, subdivision, orchard work and harvesting.

New Electrical Publication.

"Industry's Electrical Progress" is the title of a very interesting publication issued by the Cutler-Hammer Manufacturing Company, manufacturers of electric control apparatus, Milwaukee, Wis. The author has produced a book which business men connected with manufacturers will appreciate. Many photographs of actual installations are shown.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

To Supply Quantity Estimates To Builders.

The W. F. Jackson Company of Birmingham, Ala., and Memphis, Tenn., which specializes on quantity estimates to building contractors, has just opened an office at 207 Bona-Allen Building, Atlanta, Ga.; S. V. Spitzer of Atlanta is president of the Georgia branch of the company, with W. F. Jackson, Birmingham, vice-president, and James W. LeMay of Atlanta, secretary-treasurer. Since its organization five years ago the company has grown steadily, the second branch having been organized three years ago in Memphis. Under the present arrangement the Atlanta office will serve North and South Carolina, Georgia, most of Florida and eastern Tennessee. The Memphis office will serve central and western Tennessee, Arkansas and northern Mississippi. The Birmingham branch will serve western Florida, Alabama, southern Mississippi and Louisiana.

McGregor Smith in New Position.

McGregor Smith, chief engineer of the Public Utilities Commission of Tennessee, has resigned to become manager of the Southern New Orleans Light and Traction Company, one of the companies of the Electric Bond and Share Company. Mr. Smith has an enviable record for a man of his years. During the World War he volunteered for service while still under the draft age and served in the A. E. F. with credit. On his return from France he entered the College of Engineering of the University of Tennessee, where he graduated with honor. Immediately upon graduation he was called into the service of the Public Utilities Commission, and his record as chief engineer has been highly creditable to his alma mater and to himself. The responsible position that has been given Mr. Smith by a great corporation bespeaks technical and executive ability of a high order. While Tennessee may well regret losing so able a native son, it can rejoice that his talents will at least be directed to the development of a nearby section of the South.

Railroad Supplies.

The Bardach Iron and Steel Company, Inc., Norfolk, Va., are now handling railroad supplies, being appointed representatives of Clayton L. Hagy & Son, Inc., of Philadelphia, Pa. (waste and wipers); Standard Broom and Brush Company, Portland, Ind.; Weathercraft Company, Cleveland, Ohio (paints and varnishes); Walters Manufacturing Company, Pittsburgh, Pa. (brazed steel wares), and American Frog and Switch Company, Hamilton, Ohio. Other kindred manufacturers will also be represented.

J. H. Kirby Heads Texas Steel Co.

John H. Kirby of Houston, Texas, has accepted the presidency of the Texas Steel Company, manufacturers, South Fort Worth, Texas. James K. Remsen has been appointed assistant to the president and treasurer, and John A. Coyle of Pittsburgh, Pa., has been appointed metallurgical and operating manager. Announcements of the organization also state that the new policy of the company has its strength in servicing, on an equitable basis, all Texas concerns needing steel. It plans for a wide extension of its capacities, and new equipment is being designed, but there will not be any interference with the output when making the improvements.

Now With Ironton Fire Brick Company.

Cecil E. Bales, formerly assistant manager of the Louisville (Ky.) Fire Brick Works, resigned his position there on May 31 to become associated with the Ironton Fire Brick Company of Ironton, Ohio, in the capacity of production manager. Mr. Bales received his technical training at the University of Chicago and the University of Kentucky. He began his career in the refractories industry as a chemist with the Louisville Fire Brick Works. He has been very active in various scientific and technical organizations and is a member of sundry societies and associations. He has made a special study of refractories for malleable iron furnaces.

William W. Sanderson.

William Welsh Sanderson, general sales manager of The Carborundum Company, died on July 6 at the home of his mother, Mrs. E. Sanderson, Stratford, Ont., after a long illness. Mr. Sanderson was 46 years old. He was born in Brantford, Ont., and moved to Stratford when a child. He entered the employ of The Carborundum Company in 1901 as a clerk in the billing and order department. In 1904 he was appointed to the sales staff, and for many years was the company's sales representative in the South. In 1909 he was made district sales manager for the Pittsburgh territory, and for ten years was in charge of the warehouse, office and sales force in that city. In 1919 he was appointed general sales manager, succeeding George R. Rayner, who was made vice-president of the company.

Dean Hill Office in Philadelphia.

The Dean Hill Pump Company of Anderson, Ind., has opened an office in Philadelphia, Pa., at 816 Real Estate Trust Building, with R. W. Nagle as manager, and engineering service and counsel will be available.

R. W. Gillispie With Jeffrey Manufacturing Company.

The Jeffrey Manufacturing Company of Columbus, Ohio, has elected Robert W. Gillispie, as vice-president, assistant general manager and member of the board of directors. He has for many years been identified with the Bethlehem Steel Company as a prominent and outstanding figure in its

executive sales work. The Jeffrey Manufacturing Company is well known as an old and large manufacturer of coal-mining machinery, locomotives and other mine equipment including coal tipplers. It is also extensively engaged in broad engineering installations and in the manufacture of unit machinery for material handling in numerous lines.

Trumbull Steel Opens Cincinnati Office.

The Trumbull Steel Company, with mills at Warren, Ohio, has opened a district sales office at 803 Union Trust Building, Cincinnati, Ohio. This new office will be in charge of Willard Foster, who will handle the distribution of tin plate, sheet and strip metal for the company in the southern Ohio, southern Indiana and Kentucky field.

A Specific Illustration of Florida's Industrial Possibilities.

Skinner Machinery Company.

Dunedin, Fla., July 12.

Editor Manufacturers Record:

Florida is not generally accounted a manufacturing state, although, with a population of 1,264,000, it annually turns out approximately \$190,000,000 of manufactured products. As an illustration of the importance of developing the industrial interests of the state, some specific facts about the growth and activities of this company may be of interest. Dunedin is located on the west coast, some 20 miles from Tampa. Until recently the town was known more to the people of Florida as the home of the Skinner Machinery Company and its manufacturing plant than as a place of residence. Lately, with the development of Dunedin Isles and other worth-while projects around and within the city limits, the town has become also a center of homeseekers.

The Skinner Machinery Company for many years has been the headquarters for the manufacture and distribution of machinery used by the citrus and vegetable packing industries. Shipments have gone to Japan, Spain, South America, Porto Rico, South Africa and many other foreign countries. Patents covering much of this machinery are controlled by the company; hence, this equipment finds its way into almost every section where trucking and fruit growing is done on a commercial basis. However, several years ago, in order to provide year-round employment for the company's highly skilled mechanics and craftsmen, other lines were sought for manufacture. The company originated several products of its own, which are being sold by branch offices in various parts of the state and by some 30 salesmen located in other sections. Perhaps the most important of these is the gas maker, an appliance valuable to the rural home. With this equipment the home owner can have all the conveniences of city gas.

Many people coming to Florida for a winter home select their sites without regard to the conveniences of the cities. When they build along some beautiful lake or river they find naturally much discomfort in not having the conveniences to which they are accustomed; chief among these conveniences is gas, so the market for the gas maker seems to be almost unlimited, and the company is working to capacity both to manufacture and to install this special equipment.

Another item of importance is the down-draft boiler, which was designed by the heating engineers of the Skinner company to provide a heating unit especially adapted for Florida use. The company is Florida distributor for the Winslow Boiler and Engineering Company's oil burners, approved by the underwriters and standard with heating and steam engineers the world over. The down-draft boiler has an efficiency of from 75 to 80 per cent, and was made especially to accommodate this oil burner; when installed, one can have automatic heat controlled by a thermostat in the living room. The boiler is adapted for hot-water radiation, low-pressure steam radiation and for installation in hotels, clubs, etc.; to supply hot water to a storage tank for the bath and showers.

Another apparatus manufactured by the company is the crystal water softener. In many parts of Florida the water

is hard, making it unsuited to general household use without the application of strong chemicals, ammonias, sodas, etc., to break it up. The crystal softener provides 100 per cent soft water under certain conditions.

In addition, the Skinner company is Florida distributor for several very complete lines of equipment, such as the General Refrigerating Company's Lipman automatic refrigerating systems for commercial use; the Winslow Boiler and Engineering Company's oil burners for both domestic and commercial use; the Homer Furnace Company line of furnaces; the Myers Furnace Company's oil-burning furnaces; the Miami cabinet line of bathroom cabinets; the Franklin gas steam radiators, which are used in connection with the Skinner gas maker; and Adams Brothers' radiant heaters. The company also acts as distributor of the Pittsburg line of hot-water heaters; South Bend Malleable Iron Company's hotel ranges; the Kohler electric lighting plant; the American Radiator Company's boilers and radiators; the National Boiler Company's radiators and boilers; the Myers water systems, and a number of other home appliances.

G. L. BEARDSLEY, Advertising Manager.

Work Progressing on \$650,000 Medical Building.

St. Louis, Mo.—Work is in progress on the \$650,000 Beaumont medical office building being erected in this city for the Beaumont Medical Building Company. The James Black Masonry and Contracting Co., St. Louis, is the general contractor. The structure will be 140 by 67 feet, 10 stories, of reinforced concrete, the first and second stories to be faced with cut stone and remaining stories with brick and terra cotta. It will be used exclusively by doctors and dentists and will contain a 40-bed hospital on the second floor. LeBeaume & Klein are the architects and Brussell & Viterbo, engineers, both of St. Louis.

Sub-contracts have been awarded as follows: Heating, Peters-Eichler Heating Company; plumbing, J. Sheehan Plumbing Company; painting, J. W. O'Connell Painting Company; electric wiring, William A. Corrao Electric Company; sheet metal, Powers and Boyd Cornice and Roofing Company; miscellaneous and ornamental iron, Builders Iron Work Company; reinforcing steel, Missouri Rolling Mill Corporation; miscellaneous materials, Hunkins-Willis Lime and Cement Company; lumber, Phillip Gruner Bros. Lumber Company; rough hardware, Geller, Ward and Hasner Hardware Company, all of St. Louis; stone work, Central Oolithic Stone Company; metal windows, Voigtman & Co., both of Chicago.

Thread Factory for Kentucky.

Lawrenceburg, Ky.—Details have been arranged by John W. Dawson, president of Anderson County Chamber of Commerce, and the Dean and Sherk Corporation of Detroit whereby the latter will establish a thread factory here and remove its business from Detroit. A contract has been awarded to C. A. Koerner of Louisville for the erection of a \$90,000 building, which is expected to be completed by November 1.

Five per cent municipal-improvement bonds in the amount of \$935,000 have been sold by Elizabeth City, N. C., at a premium of \$17,132, to A. T. Bell & Co. of Toledo, Ohio.

Waste Fields in Selling

Your market as a whole is a patchwork of numerous little fields. Some of these are more fertile than others. The most fertile often go uncultivated; while the least fertile, cultivated at comparatively too high a cost, become *waste fields in selling*.

The *MARKET ANALYSIS* Service of Ernst & Ernst ascertains, by scientific method, the populations, characteristics, consumption requirements, abilities to buy, competitive strength, etc., in each of the fields making up your market.

The proper use of the information, developed by this Analysis, reduces selling costs, increasing net profits as well as volume.

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BALTIMORE	YOUNGSTOWN	WHEELING	INDIANAPOLIS	HOUSTON
RICHMOND	TOLEDO	ERIE	DAVENPORT	SAN ANTONIO
WASHINGTON	CINCINNATI	ATLANTA	DENVER	WACO
BUFFALO	DAYTON	MIAMI	ST. LOUIS	SAN FRANCISCO
ROCHESTER	LOUISVILLE	TAMPA	KANSAS CITY	LOS ANGELES
	MEMPHIS		OMAHA	

FINANCIAL NEWS

Bond Issues Proposed

Ala., Goodwater—Water Works—City, W. R. Dean, Mayor, will call election Aug. 6 on \$20,000 bonds.

Ark., Paragould—Drainage—Directors of St. Francis Drainage Dist., Clay and Greene counties, receive bids July 28 for about \$165,000 bonds.

Fla., Clearwater—Causeway—City Comr., will call election July 27 on \$410,000 bonds.*

Fla., Daytona Beach—Municipal Improvement—Indebtedness—City, Walter A. Richards, Mgr., plans \$800,000 bond issue: \$50,000, waterfront park; \$275,000, paving; \$100,000, water mains; sewers extension; \$25,000, negro swimming pool; \$200,000, indebtedness.

Fla., Davenport—Buildings—City voted \$95,000 bonds. Address City Clk.

Fla., Fort Lauderdale—School—Broward County Special Tax School Dist. No. 4 voted \$200,000 bonds. Address County Board of Public Instruction.

Fla., Fort Lauderdale—Harbor—City, B. J. Horne, Mgr., will call election August 3 on \$2,000,000 bonds for harbor at Bay Mabel.*

Fla., Fort Lauderdale—Assessment—City Comn. authorized issuance of \$107,000 bonds; E. J. Horne, Mgr.

Fla., Fort Lauderdale—W. T. Eller, Asst. Sec. Chamber of Commerce, advises: "City Comn. authorized sale of \$1,800,000 improvement bonds already voted, sale Aug. 10; also \$170,000 special assessment bonds, covering work 23 streets, contracts already let."

Fla., Fort Myers—Improvement—City Comn. may receive bids before Aug. 15 for \$175,000 bonds. Walter O. Sheppard, J. Bowers Campbell, Atty.*

Fla., Groveland—Municipal Improvement—Town, Sherman Drawdy, Clk., receives bids July 30 for \$68,000 6% \$1000 denom. bonds.

Fla., Hialeah—Municipal Improvement—City, E. E. Lucas, Director of Public Safety and Works, plans \$1,000,000 bond issue: \$200,000, street improvement; \$125,000, parks and playgrounds; \$50,000, city hall, remodel police headquarters and central fire station; \$25,000, incinerator; \$100,000, water mains and fire hydrants; will sell \$500,000 bonds.

Fla., Indian Rocks—Roads—Bridge—Town, George B. Merrell, Clk., voted \$120,000 road and \$100,000 bridge 6% bonds for Indian Rocks Beach; S. C. Parks, Mayor-Commr.; Baird & Schriber, Engrs., Marble Arcade, Lakeland, Fla.; plans selling \$120,000 bonds.

Fla., Kissimmee—School—Osceola County Board of Public Instruction, Sam Brammar, Sec., receives bids Aug. 9 for \$130,000 6% \$1000 denom. Special Tax School Dist. No. 1 bonds.

Fla., Lake Butler—Road—Union County Board of Bond Trustees, T. M. Riherd, Sec., receives bids Aug. 3 for \$360,000 6% \$1000 denom. bonds.

Fla., Miami—Road, Bridge—Dade County Comr., will call election Aug. 10 on \$3,000,000 bonds.

Fla., Miami—School—Dade County Board of Public Instruction, Chas. M. Fisher, Sec., receives bids July 30 for \$635,000 6% \$1000 denom. Special Tax School Dist. No. 5 bonds and \$85,000 6% \$1000 denom. Special Tax School Dist. No. 13 bonds.

Fla., Miami—School—Dade County Board of Public Instruction, Chas. M. Fisher, Sec., will call election July 27 on \$30,000 6% \$1000 denom. Special Tax School Dist. No. 6 bonds.

Fla., St. Andrew—School—St. Andrew Dist. voted \$60,000 bonds. Address Bay County School Board, Panama City.

Fla., St. Augustine—Bridge—City Comn., C. G. Oldfather, Auditor and Clk., receives bids August 10 for \$300,000 5½% Matanzas River Bridge coupon bonds.

Fla., St. Petersburg—Rail Facilities Extension—City Comn. plans \$350,000 bond election; Ernest Kitchen, Director of Public Works.

Fla., Sarasota—Street—City, J. R. Brumby, Jr., Commr. of Public Works, plans \$91,000 bond issue.

Fla., Sebring—Municipal Improvement—City, Wm. E. Parrish, Mayor, will call election September 17 on \$235,000 bonds: \$60,000, city hall; \$50,000, fire station; \$50,000, street improvement; \$20,000, water works extension; \$25,000, storm sewer; \$20,000, sanitary sewer; \$10,000, lighting system.

Fla., Sebring—School—Highlands County voted \$180,000 bonds: Avon Park Dist., \$80,000; Sebring Dist., \$100,000; F. N. K. Bailey, Supt. County School Board.*

Fla., Tampa—Road—Bridge—Hillsborough County Comr., W. A. Dickenson, Clk., will call election Aug. 11 on \$350,000 6% Seffner Road and Bridge Dist. bond.*

Fla., Tarpon Springs—Park Improvement—City Comr., will call election August 16 on \$68,000 bonds: \$45,000, purchase 12 acres and improve for park and playground; \$15,000, improve park site at Whitcomb Bayou; \$30,000, improve site at Sunset Hills; \$5000, improve site in center of city.*

Fla., Tarpon Springs—Hospital—City Comr., will call election Aug. 16 on \$25,000 bonds.

Fla., Fort Valley—School—Fort Valley Consolidated School Dist. votes July 27 on \$18,000 5% \$1000 denom. bonds.

Fla., Hoboken—Road—Brantley County Comr., will call election in Nov. on \$150,000 bonds.*

Fla., Toombsboro—School—City voted \$10,000 bonds. Address Pres. Board of Trustees.

Fla., Winder—School—School Dist. No. 2, Statham Dist., voted \$25,000 bonds. Address Trustees of School Dist. No. 2.

Fla., Toombsboro—School—City voted \$10,000 bonds. Address Pres. Board of Trustees.

Fla., Sandy Hook—Road—Elliott County Fiscal Court, Allie Young, Judge, will call election Aug. 14 on bonds.*

Fla., Franklin—Public Improvement—Town, C. Aucoin, Clk., receives bids Aug. 4 for \$150,000 6% \$1000 denom. bonds.

La., Marksville—Courthouse—Avoyelles Parish voted \$200,000 bonds. Address Parish Police Jury.

La., Oberlin—Drainage—Allen Parish Police Jury plans bond election for Gravity Drainage Dist. No. 3; T. H. Mandell, Engr. for Dist., Lake Charles.

Miss., Belzoni—Bridge—Humphreys County Board of Supvrs., will call election July 30 on \$30,000 bonds.*

Miss., Grenada—Road—Grenada County voted \$75,000 bonds. Address County Comr.

Miss., Gulfport—City voted \$60,000 water and \$45,000 school-site bonds. Address City Clk.

Miss., Lexington—Road—Holmes County, Beat No. 5, voted \$45,000 bonds. Address County Comr.

Miss., Longview—School—Longview Consolidated School Dist., votes Aug. 3 on \$10,000 bonds. Address Pres. School Board.

Miss., Magnolia—School—City votes Aug. 3 on \$30,000 bonds. Address Pres. School Board.

Miss., Meridian—Sewer—City Comn. will call election Aug. 16 on \$125,000 bonds*

Miss., Port Gibson—Road—Clalborne County, Second Dist., voted \$18,500 bonds. Address Board of Supvrs.

Miss., Ripley—Road—Tippah County Board of Supvrs., A. M. Young, Clk., receives bids August 4 for \$100,000 5½% \$1000 denom. Separate Road Dist. of First Supvrs. Dist. bonds; \$150,000, 5½% \$1000 denom. Separate Road Dist. of Second Supvrs. Dist. bonds.

Miss., Starkville—Road—Oktibbeha County Comr., will call election Aug. 3 on \$200,000 bonds.

Mo., Excelsior Springs—Sewage Disposal Plant—City voted \$40,000 bonds: C. Haskins, 824 Finance Bldg., Kansas City.

Mo., Kirkwood—Water Works—City voted \$150,000 bonds. Address City Clk.*

Mo., St. Joseph—Municipal Improvement—City voted \$1,904,000 bonds: \$763,000, parkway paving; \$1,036,000, storm relief and sanitary sewers; \$55,000, complete third floor to city hall; \$50,000, grading parkways. Address City Clk.

N. C., Black Mountain—Public Improvement—Town, H. A. Kerlee, Clk., receives bids August 6 for \$35,000 5½% \$1000 denom. bonds.

N. C., Clayton—School—Town plans selling \$10,000 bonds. Address Town Clk.

N. C., Fayetteville—Drainage—Cumberland County Comr., E. H. Bullard, Chmn., receives bids Aug. 2 for \$59,000 6% \$1000 denom. Drainage Dist. No. 3 bonds.

N. C., Gibsonville—Water Works—Town, M. O. Wylick, Clk., receives bids August 2 for \$10,000 6% \$1000 denom. bonds.

N. C., Mt. Holly—Improvement—City, J. W. Holland, Clk., receives bids Aug. 10 for \$30,500, 5½% \$1000 denom. bonds.

N. C., Nashville—Nash County Comr., J. B. Boddie, Clk., receives bids July 27 for \$500,000 6% \$1000 denom. bonds: \$325,000, road; \$175,000, bridge.

N. C., Winston-Salem—Municipal Improvement—City, W. H. Holcomb, Sec., receives bids July 28 for \$700,000 street assessment; \$400,000, water; \$275,000, general improvement; \$100,000, sewer, and \$100,000, city garage 5% bonds.

Okla., Stillwater—Road—Payne County Comr., may call election about Sept. 14 on \$1,000,000 bonds.

Okla., Sand Springs—Sewer—City voted \$187,000 6% bonds. Address City Clk.

S. C., Greenville—Sewer—Greater Greenville voted \$3,000,000 bonds; B. A. Morgan, Chmn., Sewerage Comn.*

S. C., Orangeburg—City Hall—City votes August 17 on \$175,000 bonds. Address City Clk.*

Tenn., Ripley—Courthouse—Lauderdale County Court will call election Sept. 10 on \$85,000 bonds.

Tex., Big Lake—Paving—City, Milton Moore, Mayor, voted \$25,000 bonds.*

Tex., Brackettville—Road—Kinney County voted \$150,000 bonds; John D. Stadler, County Judge.*

Tex., Canton—Water Works—City voted \$25,000 bonds; Joe White, Engr., Tyler.*

Tex., Houston—Water Works—City, H. A. Giles, City Comptroller, plans selling \$500,000 warrants; James H. B. House, Water Comr.; O. F. Holcombe, Mayor.*

Tex., Liberty—Paving—City, H. O. Compton, Mayor, will call election soon on \$50,000 bonds.

Tex., Muleshoe—Water Works—City plans selling \$40,000 5½% bonds. Address City Clk.*

Tex., Paducah—Courthouse—Cottle County, J. M. Whitley, Judge, will call election July 31 on \$150,000 bonds.

Tex., Panhandle—Road—Carson County voted \$1,000,000 5½% bonds; J. A. White-side, County Judge.*

Tex., San Benito—City votes about August 1 on \$60,000 bonds: \$35,000, incinerator; \$25,000, abattoir; Sanitary Engineering Co., Engrs., 308 Hughes St., Houston.

Tex., Sherman—Improvement—City Comn. receives bids August 16 for \$100,000 bonds.*

Tex., Sweetwater—School—City voted \$225,000 bonds; W. H. Bartlett, Sec., Board of Education.*

Tex., Vernon—Municipal Improvement—City, A. H. Hall, Sec., voted \$80,000 5½% bonds: \$40,000, water works extension; \$40,000, street improvement; receives bids July 27 for \$80,000 bonds; H. D. Hacksmith, Mayor.*

W. Va., Huntington—Road—Cabell County Comr., will call election Aug. 24 on \$300,000 bonds in Grant Dist.*

Bond Issues Sold

Fla., Clearwater—Improvement—City, J. M. Gilmore, Auditor and Clk., sold \$830,000 6% \$1000 denom. bonds to syndicate composed of Hanchett Bond Co., Chicago; Weil, Roth & Irving Co., Cincinnati, and Watling, Lerchen & Co., Detroit, at 98.43.*

Fla., Coral Gables—Improvements—City sold \$1,800,000 6% bonds to syndicate composed of B. J. Van Ingen & Co., H. L. Allen & Co., Bachelor, Wack & Co., all New York, and Century Trust Co., Baltimore, Md., at 97 and accrued interest.

Fla., Fort Lauderdale—School—Broward County Board of Public Instruction sold \$65,000 6% Special Tax School Dist. No. 1 coupon bonds to M. W. Elkins & Co., Little Rock, Ark., at 95.

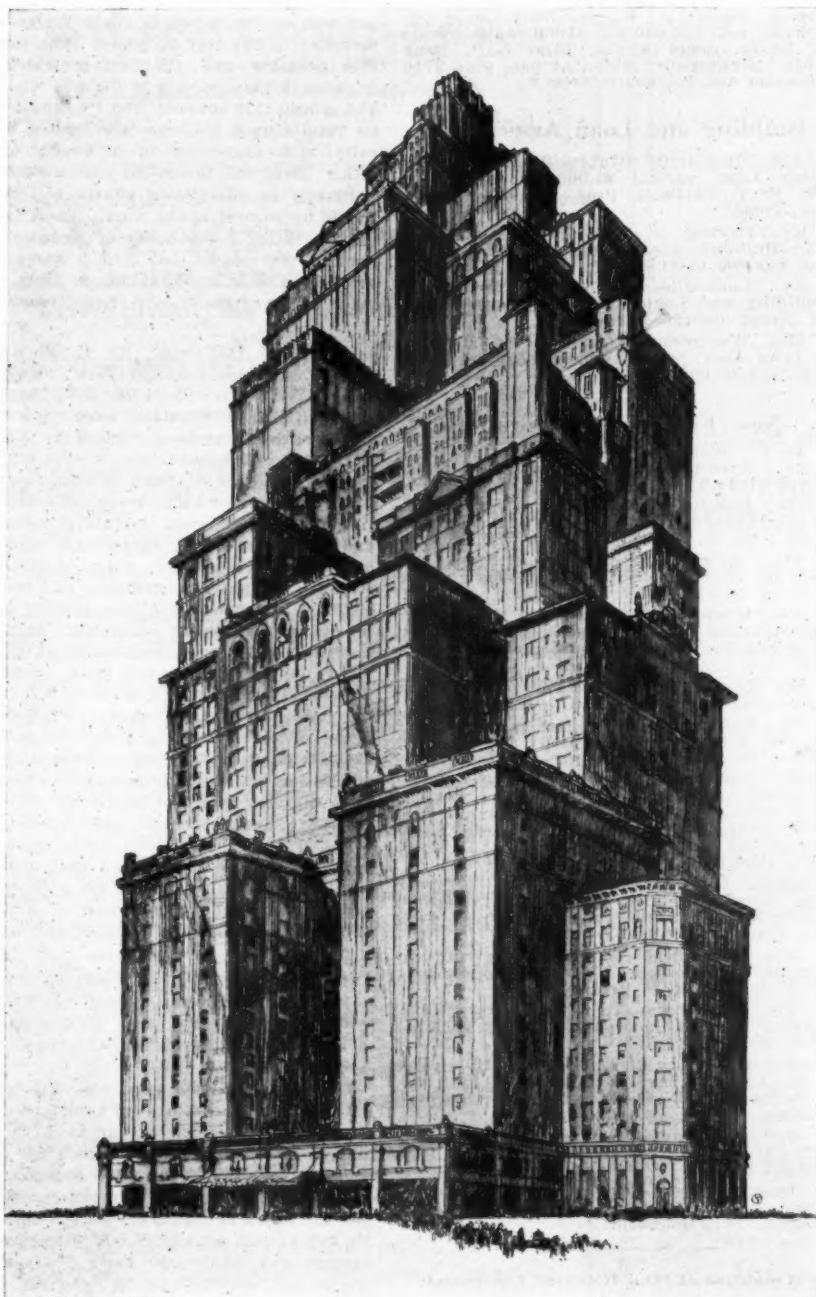
Fla., Lake Wales—Municipal Improvement—City, W. F. Anderson, Clk., sold \$278,000 6% bonds to Brown-Crummer Co., Wichita, Kan.; Hanchett Bond Co., Chicago, Ill., and Farson, Son & Co., New York, at \$96,025 and accrued interest.*

Fla., Live Oak—School—Suwannee County Comr., sold \$90,000 6% bonds to R. P. McMakin & Co., at premium of \$780 and accrued interest, and \$40,000 6% bonds to

(Continued on page 122)

MILLIONS *to Lend*

On First Mortgage Security



WE are particularly interested in loans of \$500,000 and upwards, to be secured by completed structures or buildings to be constructed.

The fact that we unconditionally guarantee the success of all Adair first mortgage investments is proof positive of our readiness and ability to co-operate in every way with owners, architects and builders—and so insure the success of every real estate development financed by us.

For details, please address our Mortgage Bond Department M. R-6.

The illustration represents a few of the recent financings through Adair Guaranteed First Mortgage Bond issues.

**ADAIR REALTY
& TRUST CO.** *Founded 1865*

ATLANTA

July 22, 1926

FINANCIAL NEWS

(Continued from page 120)

John N. Nuveen, both Chicago, Ill., for \$38,364 and accrued interest.*

Fla., Marianna—School—Jackson County Board of Public Instruction, C. E. Pledger, Chmn., sold \$150,000 6% Special Tax School Dist. No. 1 bonds to G. B. Sawyer Co., Jacksonville, at discount of \$1400; \$30,000 6% Special Tax School Dist. No. 25 bonds to State of Florida at 97.50.*

Fla., Sanford—School—Seminole County Board of Public Instruction, Fred T. Williams, Sec., sold \$35,000 6% \$1000 denom. Special Tax School Dist. No. 6 bonds to First National Bank, Sanford, at par.*

Fla., Titusville—School—Brevard County Board of Public Instruction, Alice Shellebourne, Sec., sold \$200,000 6% Special Tax School Dist. No. 4 bonds to Braun, Bosworth & Co., at 98.11; \$100,000 6% Special Tax School Dist. No. 3 bonds to Spitzer, Rorick & Co., both Toledo, Ohio, at 96.80.*

La., Baton Rouge—Wharf and River Terminal—City Comm., George F. Brogden, Sec., sold \$300,000 5% bonds to Hibernia Securities Co., New Orleans, at premium of \$15,071.*

La., Welsh—Road, Bridge—Jefferson Davis Parish Police Jury, John T. Hood, Clk., Jennings, sold \$100,000 6% Hathaway Road Dist. No. 1 bonds to Caldwell & Co., 400 Union St., Nashville, Tenn., at par and accrued interest.*

Md., Rockville—Road—Montgomery County Comms., Berry E. Clark, Clk., sold \$48,000 bonds, jointly, to John P. Baer and Equitable Trust Co., Baltimore, at \$1365 premium and accrued interest.*

Miss., Centerville—Water Works and Electric Light—City sold \$16,000 coupon bonds to Farmers Exchange Bank, Centerville.

Miss., Hernando—School—De Soto County Board of Supvrs., W. L. Browning, Clk., sold \$30,000 Olive Branch Consolidated School Dist. bonds to Olive Branch Bank at premium of \$1850.*

Miss., Jackson—Sidewalk—City, A. J. Johnson, Clk., sold \$40,468 5 1/2% bonds to Mississippi Bond & Securities Co., Jackson, at par and accrued interest; Walter A. Scott, Mayor.

Miss., Collins—Refunding—City Hall—Town, W. U. Corley, Mayor, sold \$14,000 6% bonds to Mississippi Bond & Securities Co., Capitol Natl. Bank Bldg., Jackson.*

Mo., Doniphan—City Hall—City sold \$10,000 bonds to State Bank of Poplar Bluff.

Okla., Blackwell—Improvement—City sold \$360,000 4 1/2% bonds to Brown-Crummer Co., Wichita, Kansas, at par.

Okla., Coweta—Municipal Improvement—Town, John Gill, Clk., sold \$71,000 5 1/2% bonds to Pierol Bond Co., Oklahoma City, and First National Bank, Coweta.*

S. C., Anderson—School—Trustees of Walker-McElmoyle School Dist. No. 50 sold \$12,000 bonds to Dixon Bond Co., Greenville, at premium.

S. C., Charleston—Paving—City, L. A. Smith, Treas., sold \$200,000 5% bonds to Commissioners Sinking Fund, Charleston, at \$208,000 and accrued interest.*

S. C., Walhalla—Road—Oconee County Comms. sold \$25,000 5% bonds to C. W. McNear & Co., Chicago, Ill., at par and premium of \$500.

Tenn., Chattanooga—Suburban Improvement—City, Richard Hardy, Mayor, sold \$225,000 4 1/2% bonds jointly to Caldwell & Co., 400 Union St., Nashville, and Harris Trust & Savings Bank, 115 W. Monroe St., Chicago, Ill., \$2700 premium.*

Tenn., Newport—Road—Cocke County Court, Perry A. Valentine, Clk., sold \$36,000 4 1/2% bonds to I. B. Tigrett & Co., Jackson, at par, accrued interest and premium of \$1800.*

Tenn., Riverview, Chattanooga—Municipal Improvement—Sam E. Whitaker, 1514 Hamilton National Bank Bldg., Chattanooga, sold \$30,000 bonds to Hamilton National Bank at premium of \$200.*

Tex., Alice—School Board, W. L. Burtin, Sec., sold \$15,000 5 1/2% Alice Independent School Dist. bonds to Conn Bros., San Antonio.*

Tex., Austin—School—State Board of Education purchased \$196,000 5 and 6% school districts bonds, including \$45,000 Common School Dist. No. 1, Zavalla County; \$40,000, Dist. No. 6, Wichita County; \$22,000, Dist. No. 9, LaSalle County.

Tex., Big Lake—Paving—City, Milton Moore, Mayor, sold \$20,000 bonds to H. C. Burton & Co., San Antonio, Tex.*

Tex., Donna—Refunding—City sold \$28,000 6% \$500 denom. bonds to H. C. Burt & Co., Austin, at par.

Tex., San Antonio—School—W. H. Shaw, Sec. School Board, sold \$75,000 Los Angeles Heights Independent School Dist. bonds to Central Trust Co., San Antonio, at premium of \$1575.*

Va., New Castle—School—Craig County School Board, J. W. McCleary, Supt. of Schools, sold \$35,000 5% \$1000 denom. bonds to Drake, Jones & Co., First Natl. Bank Bldg., Minneapolis, Minn., at par, plus \$716 premium and accrued interest.*

Building and Loan Associations

Ala., Huntsville—Huntsville Building & Loan Assn., capital \$1,000,000, organized; Dr. E. V. Caldwell, Pres.; R. O. Mitchell, Sec.-Treas.

Ky., Dayton—Progressive Loan and Building Assn., plans increasing capital, \$500,000 to \$1,000,000.

Ky., Louisville—Woodmen of the World Building and Loan Assn., incorporated; F. H. Ernst, George Burnett.

Mo., Warrensburg—Quarry City Building & Loan Assn., plans increasing capital \$350,000 to \$500,000.

New Financial Corporations

D. C., Washington—North Capitol Mortgage & Investment Co., capital \$100,000, incorporated; Theodore Michael, 1 H St. N. W.

Fla., Canal Point—Bank of Canal Point, capital \$25,000, chartered; F. E. Bryant, Pres.; W. R. Bonham, Cashier.

Fla., Sebring—First National Bank of Sebring, G. F. Bobb, Pres., increased capital, \$50,000 to \$100,000.

Fla., West Palm Beach—Palm Beach Bank & Trust Co., H. P. Smith and D. L. Williams, Vice-Presidents, plans reorganizing with \$500,000 capital.

Ky., Louisville—Louisville Trust Co., plans increasing capital, \$800,100 to \$1,000,000.

Ky., Louisville—Title Guaranty Trust Co., capital \$300,000, incorporated; T. Kennedy Helm, Inter-Southern Bldg.

Mo., Cambridge—Eastern Shore Trust Co., Geo. W. Woolford, Pres., acquired Deposit and Savings Bank, Snow Hill, Oscar M. Purcell, Pres., to be known as Eastern Shore Trust Co. Bank of Snow Hill, Wm. D. Corddry, Pres.; D. Frank Fooks, Vice-Pres.

Miss., Jackson—Mortgage Bond & Trust Co., Mississippi Fire Bldg., capital \$50,000, organized; N. Leslie Carpenter, Pres., 4433 St. Charles St., New Orleans.*

Mo., Marshfield—Marshfield Agricultural Credit Corp., capital \$10,000, incorporated; J. A. Millian, R. T. Bridwell.

Mo., St. Louis—Arlene Investment Co., capital \$32,500, incorporated; Carl E. Keisker, 3928 Green St.

Mo., University City, St. Louis—University City Loan & Savings Co., capital \$10,000, incorporated; R. C. Selbert, University Club Bldg.

N. C., Durham—Standard Finance Corp., capital \$25,000, chartered; I. A. Lindsey, Broad St.

Tenn., Memphis—Chickasaw Loan Association, capital \$25,000, incorporated; A. W. Logan, Phil Goldstein.

Catalogue of "Old Hickory" Equipment.

The General Equipment Catalogue No. 24 has been issued by the Nashville Industrial Corporation, Old Hickory, Tenn. In the peace time industrial development of Old Hickory—which was built for a powder plant by the Government during the World War—most of the machinery and equipment formed a surplus, much of which has already been sold to industrial plants located elsewhere, and it is the remainder of this class of equipment which is listed in this catalog. The corporation says that it has negotiated thousands of sales by correspondence with satisfaction to all concerned.

Book Reviews

20th Century Advertising. By George French, New York: D. Van Nostrand Company. 1926. Cloth. Pp. 588. \$6.

In this large and comprehensive volume of nearly 600 pages Mr. French discusses delightfully and entertainingly about 25 subjects of pertinent interest to advertising men. His book is an epitome of the great advance which has been accomplished in the business of advertising in the last 25 years. The cause of this progress and the factors which contributed thereto, certain of the men who aided and guided this advance, and its influence and its results upon business, are treated historically with expression of a wealth of new ideas. Everyone interested either directly or indirectly in advertising efforts will be well repaid by perusal of the work. There is nothing smacking of text-books or technical writings in the volume, but it is a narrative of progress and a summing up of facts which made the progress of advertising possible.

Lumber and Its Uses. By R. S. Kellogg, U. P. C. Book Co., 239 West 39th street, New York city. Cloth, pp. 366. \$4.

Mr. Kellogg's standard work, now in its third edition, has been revised by Franklin H. Smith, and brought up to date with statistical tables as of 1924. The style of the book is simple and non-technical. It covers the structure of wood, including springwood and summerwood; discusses the values for different purposes of such qualities as strength, toughness, hardness, elasticity, resistance to impact; explains grading according to uses; timber seasoning; cause and prevention of decay; application of paint to wood; laying of hardwood floors; method of increasing resistance of wood to fire; building codes; comparison of lumber prices with prices of other building materials; principal uses of important species, and the high spots of the lumber industry generally. Since the book contains only 366 pages, the above subjects are hardly treated exhaustively, however. The 111 statistical tables give much valuable data on tests of all the commercial species of woods, the principal uses, the percentages of each species used in a number of standard industries and uses, and so forth.

Dependent America: A Study of the Economic Bases of Our International Relations. By William C. Redfield. Boston and New York: Houghton-Mifflin Company. 1926. Cloth. Pp. 268. \$2.50.

The author of this book, who was formerly United States Secretary of Commerce, makes it plain to his readers that more than 100 substances necessary for the national defense must be imported from other countries; that 500,000 animals are killed every day throughout the world to supply us with leather; that we import each year 1,000,000 miles of sausage casings and 25,000,000 tooth brushes; that we do not produce any tin, and yet we are the largest makers of tinplate and consume more than one-half of the tin output of the world. Mr. Redfield instructively and fully surveys America's position as an importing land, showing its dependence both for national defense and for daily life on articles brought from over the seas. He has made a book of unusual interest and of much importance, because international affairs are today woven so closely with questions of trade and finance that it is only with an exact comprehension of our position with respect to the rest of the world that our foreign policies can be adequately considered and founded.

WE extend the facilities of our organization to those desiring information or reports on companies with which we are identified.

Electric Bond and Share Company

(Incorporated in 1905)

Paid-up Capital and Surplus, \$80,000,000

71 Broadway

New York



Clifton D. Benson,
President
Philip J. Corrigan,
Vice President

We Buy Bonds
City, County, School and Road from Municipalities and Contractors

WRITE

THE PROVIDENT SAVINGS BANK & TRUST CO.
CINCINNATI OHIO

Weight, Warlow & Co.

Municipal and Corporation Bonds

Specializing in the preparation of legal proceedings for municipal bond issues

Tampa Fifth Floor State Bank Bldg. ORLANDO FLORIDA St. Petersburg

Municipal Bonds

Inquiries invited from municipalities and contractors. We buy city, county, district, school, road, lighting, water works and other municipal issues.

A.C. ALLYN AND COMPANY

67 W. Monroe St., Chicago, Ill.
New York Boston Philadelphia Milwaukee Minneapolis San Francisco

We Buy and Sell

MUNICIPAL BONDS AND NOTES
CORPORATE PREFERRED STOCK and BOND ISSUES

See Us on Southern Financing

R. S. DICKSON & CO., Gastonia, N. C.
New York Greenville, S. C. Goldsboro, N. C.

WE BUY MUNICIPAL BONDS

We are interested in the purchase of Southern Municipals including road, school, county, drainage and levee bonds.

M. W. ELKINS & CO.
Southern Trust Bldg.

Little Rock, Ark.

**STATE—COUNTY—CITY
Financing**
CURTIS & SANGER
49 Wall Street - NEW YORK

First Mortgage Bonds
Mortgages
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Real Estate
Property Management

BANKERS BOND & MORTGAGE COMPANY

11th FLOOR HUNTINGTON BLDG.
MIAMI, FLORIDA

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\$20,000 in 20 years
\$20,495 in 12 years
Which do you prefer?

IF YOU put by \$1,000 a year it takes 20 years to accumulate \$20,000. If you get 4% compound interest on your money in 13 years you accumulate \$20,824. If you get 6% compound interest you can have \$20,015 in 13 years. At 8% compound interest you can acquire \$20,495 in 12 years.

There are five reasons why you get 8% safely on First Mortgage Bonds offered by the Trust Company of Florida. Investigate! Send for free booklet.

Invest in Florida at 8%
\$100, \$500 and \$1,000 Bonds
Partial Payments Arranged

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TRUST COMPANY OF FLORIDA
Paid-in Capital and Surplus \$500,000

MIAMI FLORIDA

I want to know Florida's five reasons for 8% and safety.

Name.....

Street.....

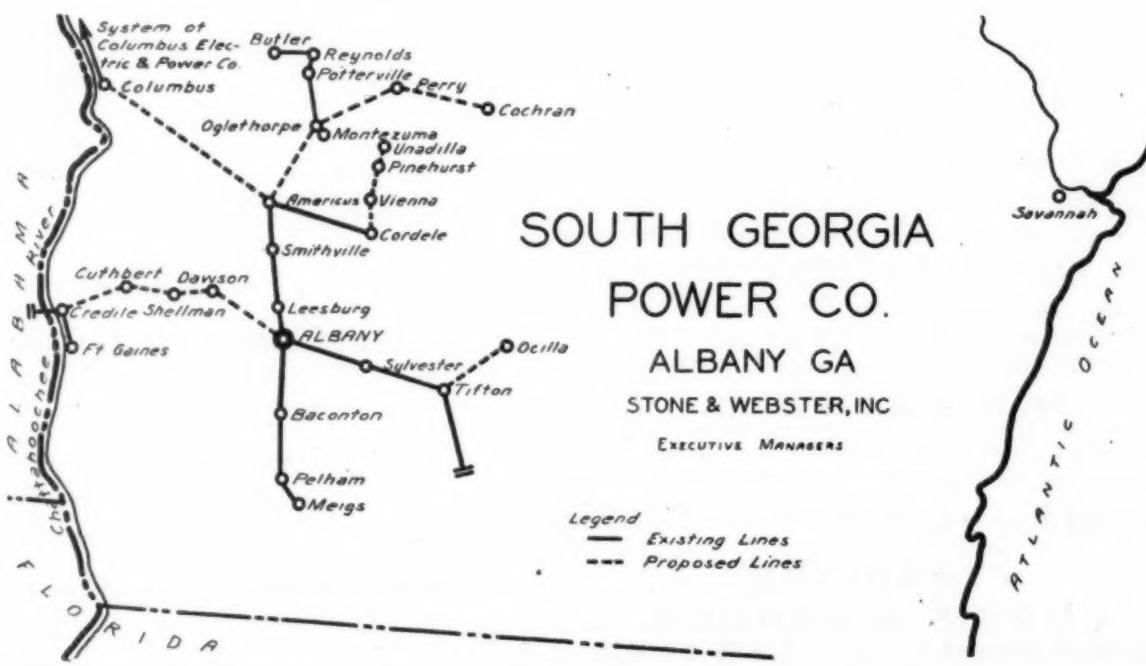
City..... State..... 901

THE Empire Section OF THE Empire State OF THE SOUTH

Southwest Georgia

A picture of this Territory shows fertile fields and pine forests on easy rolling land; a fair, mild, healthful climate which has made agriculture the basic activity. Railroads have threaded their way to the most remote places where can be found a goodly population of native born white people of Anglo-Saxon stock, who make excellent skilled workers. Lands can be had at low prices and raw materials are near at hand.

The entire section having, all the other advantages conducive to industrial prosperity, is now awakening to its opportunities with the advent of the final requisite for industrial progress—that of dependable, low priced Electric Power.



TO IMPORTERS of
BRITISH TEXTILES
AND OTHER GOODS

The old established Anglo-American Banking firm of

John Stuart & Co., Ltd.
MANCHESTER - - - ENGLAND

desires to act as Banking Agents on behalf of American Importers of Textiles and other goods on customary terms. This firm was originally established in New York in 1822 and enjoys the highest standing connections in the United States.

The Davison Chemical Company

ESTABLISHED 1832

SULPHURIC ACID
50° 60° 66°

Acid Phosphate
Superphosphate
Double Superphosphate

Main Office—Garrett Bldg.
BALTIMORE MARYLAND

**The Magnitude of
the South's Business**

The growth of the South is attracting the attention of the business world as never before.

Is your business expanding? Do you need increased banking facilities?

We invite your inspection of our modern, burglar-proof and fireproof Safety Deposit Vaults, which may be rented at small cost.

BALTIMORE COMMERCIAL BANK
GWYNN CROWTHER, President
26 South Street, Baltimore, Md.
Capital and Surplus \$1,350,000.00 Member Federal Reserve System

MARYLAND TRUST COMPANY
BALTIMORE

Transacts a General Trust and Banking Business

Correspondence and interviews invited

CAPITAL, \$1,000,000

FOURTH NATIONAL BANK
MACON, GA.

In close touch with all of Georgia, offers its aid to those interested in that State.

REAL ESTATE MORTGAGE BONDS

We are interested in the purchase of first mortgage bond issues covering business property, hotels, apartment houses, etc., in amounts of \$50,000 and upwards. Entire issues city, county and district bonds purchased.

MARX AND CO.
Brown-Marx Bldg. Birmingham, Ala.

YOUNG & SELDEN COMPANY

MANUFACTURING

Bank and Commercial Stationers
BALTIMORE, MD.

FLORIDA'S SAFEST INVESTMENT

Shares in its old-established Building and Loan Associations

Become a member of the Lakeland Building and Loan Association and invest in its capital stock.

RETURNS 8% WITH

100% SECURITY

Dividends of 2% are payable, in cash, every three months on full paid shares.

Subject to Supervision and Examination of the Comptroller of the State of Florida.

Lakeland, Florida's highest city; Florida's largest inland city, finest climate and best water in the State; in Polk County, the largest citrus-producing county in the world.

Let us tell you how you may take advantage of these facts and increase your income.

Ask us to send you our booklet.

LAKELAND BUILDING AND LOAN ASSOCIATION

Box 35 LAKELAND, FLORIDA

**FREEPORT
Sulphur Company**

LOCATION OF MINES

Freeport, Texas, Mouth of Brazos River

NEW YORK OFFICE

61 Broadway

SELLING AGENTS

PARNONS & PETIT, 63 Beaver Street, New York

Miners and shippers crude sulphur in carloads or shiploads. Guaranteed ninety-nine and one-half per cent pure.

Mines located at Tidewater on the Gulf of Mexico.

Excellent facilities for prompt steamer loading.

Complete service by rail.

OIL-ELECTRIC LOCOMOTIVE A SUCCESS. Builders Set Forth Its Economy and Other Advantages for General Use.

Although it was three years ago that the first oil-electric locomotive was placed on the rails by its builders—the Ingersoll-Rand, the General Electric and the American Locomotive companies—it has only been within the past eight months that one of these new railroad engines was owned by any railroad, says the Ingersoll-Rand Company. Installation of this new motive power has now progressed with such rapidity that 10 important railroads in the East and the Middle West and three industrial corporations are now using or have ordered locomotives of this type, and it has been demonstrated in actual service that they can be operated at a fuel cost of from one-fifth to one-sixth that of an equivalent steam locomotive.

The oil-electric locomotive, it is further stated, makes possible elimination of coaling plants, ash pits, turntables and expensive roundhouse and hostler service, all of which are required for steam locomotives. Very little water is required and there is no necessity for costly watering stations and equipment and troubles due to bad water conditions. Because of its smaller mechanical parts, heavier shop machinery is not required. Its availability for service is approximately 80 per cent, or about double that of the equivalent steam locomotive, and its cost of maintenance about half. Tests running over a period of months have shown that it is capable of doing the work of two comparable steam locomotives, and

have demonstrated its possibilities for savings, not only in fuel, but in items of general operating costs, fixed charges and for materials and supplies.

The builders of this locomotive estimate that between 15 and 20 days of the gross revenues of the railroads now required for these items can be saved through oil-electric operation. This, added to 20 days' revenue saved in fuel expenditures, would increase by from 35 to 40 days the number of days' revenue now available for betterments and improvements.

Railroad men and other transportation authorities are watching with keen interest the performance of this new type of motive power in actual service, and it has already been predicted that it will eventually be the motive power for general use on American railroads.

Mount Airy Knitting Company.

Mount Airy, N. C.—A charter has been secured for the Mount Airy Knitting Company, with an authorized capital stock of \$100,000; of which \$16,900 has been subscribed by W. E. Lindsay, John Banner and J. H. Crossingham, all of Mount Airy. As previously announced, a building has been secured for the installation of a knitting mill to manufacture boys' underwear.

A contract has been awarded the Texas Automatic Sprinkler Company, Houston, for installing a sprinkler system in the new \$1,000,000 freight terminal at Houston for the Southern Pacific system.

— PROPOSALS —

BOND ISSUES BUILDINGS PAVING GOOD ROADS

Bids close August 11, 1926.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., July 14, 1926.—SEALED PROPOSALS will be opened in this office at 3 P. M. August 11, 1926, for furnishing and installing a new hot-water heating plant, etc., in building No. 17 and a new wood water tank, etc., at the U. S. Quarantine Station at Craney Island, Fort Monroe, Va. Drawings and specifications may be obtained from this office, in the discretion of the Supervising Architect. J. S. A. Wetmore, Acting Supervising Architect.

Bids close August 16, 1926.

Office of Constructing Quartermaster, Fort Benning, Georgia. Sealed proposals will be received at this office until 1 P. M. August 16, 1926, and then publicly opened, for the construction of permanent Quartel Barracks (Sections "B," "C" and "D") and Utilities. Building is 1068 ft. 10 in. x 48 ft. 0 in., three stories and garret, concrete and brick construction. Plans and specifications may be obtained from Constructing Quartermaster, Fort Benning, Georgia, on deposit of \$25. Right is reserved to accept any or reject all bids.

Bids close August 6, 1926.

\$500,000 6% Bonds

FORT PIERCE INLET DISTRICT.

Sealed bids will be opened at 2 o'clock P. M. on August 6, 1926, for 500 \$1000 coupon bonds of Fort Pierce Inlet District, bearing 6 per cent semi-annual interest. Bonds mature serially from 1 to 30 years. Approving opinion by Thomson, Wood & Hoffman of New York City.

Write to E. L. Price, Chairman, Fort Pierce, Fla., for full information.

RATE: 35 cents per line per insertion.
PUBLICATION DAY: Thursday.

FORMS CLOSE: 4 P. M. Monday.
DAY LETTER: When too late to send copy by mail to reach us by 4 P. M. Monday, forward by day letter.

THE DAILY BULLETIN OF THE MANUFACTURERS RECORD:

Published every business day; gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened, or when daily publications are necessary to meet legal requirements.

The same rate applies—35 cents per line per insertion.

Bids close August 3, 1926.

\$250,000 6% School Bonds

NOTICE FOR BIDS AND DISPOSAL OF BONDS IN ACCORDANCE WITH SECTION 1537 OF THE REVISED GENERAL STATUTES OF FLORIDA, AS AMENDED.

St. Augustine, Fla.

The Board of Public Instruction of St. Johns County, Florida, will receive bids for the purchase of Two Hundred Fifty Thousand (\$250,000) Dollars of bonds of Special Tax School District Number One of St. Johns County, Florida, at the office of the Superintendent of Public Instruction of St. Johns County, Florida, in St. Augustine, Florida, until 10 o'clock A. M. on Tuesday, August 3, A. D. 1926. Said bonds are dated June 1, A. D. 1926, of the denominations of One Thousand (\$1000) Dollars each, numbered One (1) to Two Hundred Fifty (250), both inclusive, payable as follows:

Bonds	Amount Due
1 to 35, inclusive,	\$35,000, 1929
36 to 70, inclusive,	35,000, 1932

71 to 105, inclusive, 35,000, 1935

106 to 140, inclusive, 35,000, 1940

141 to 175, inclusive, 35,000, 1945

176 to 210, inclusive, 35,000, 1950

211 to 250, inclusive, 40,000, 1955

Said bonds to bear interest at the rate of six (6%) per centum per annum, payable semi-annually on the first day of June and December of each and every year, both principal and interest to be payable at the First National Bank of St. Augustine, in St. Augustine, Florida, or the Chase National Bank of New York City, N. Y., at the option of the holder of said bonds; legality will be approved by Thomson, Wood & Hoffman, Attorneys and Counsellors at Law of New York City, New York, whose approving opinion will be furnished to the successful bidder.

Bidders will include in the bid that interest will be paid by the bidder from June 1, A. D. 1926, to date of delivery of said \$250,000 of Special Tax School District Number One bonds. Any and all bids may be rejected by the Board of Public Instruction of St. Johns County, Florida, if the said Board deem it to the interest of said Special Tax School District Number One of St. Johns County, Florida, so to do. The successful bidder will be required to print the bonds. Address all bids to Board of Public Instruction, St. Johns County, care of Robert B. Meserve, Superintendent of Public Instruction, St. Johns County, St. Augustine, Fla. Said Board of Public Instruction requires of all bidders that they give surety bond or certified check in the sum of One (1%) per cent of said bid, payable to the Board of Public Instruction, that the bidder will comply with the terms of the bid.

St. Augustine, Florida, July 2, A. D. 1926.

BOARD OF PUBLIC INSTRUCTION,

ST. JOHNS COUNTY, FLORIDA.

EVELYN HAMBLEN, Chairman.

N. J. ADAMS, Member.

W. W. ERWIN, Member.

Attest:

ROBERT B. MESERVE,
Superintendent of Public Instruction of
St. Johns County, Florida.

PROPOSALS

Bids close July 30, 1926.

\$283,000 6% Improvement Bonds

Notice is hereby given that up to and until 7:30 o'clock P.M. on the 30th day of July, A.D. 1926, sealed proposals will be received by the City Commission of the City of Winter Park at the City Hall at Winter Park, Florida, for the purchase of Two Hundred and Eighty-three Thousand Dollars City of Winter Park Improvement Bonds, said bonds being general obligations of said city, authorized by a resolution of the City Commission of the City of Winter Park, duly adopted on the 22d day of June, A.D. 1926, pursuant to Chapter 9298, Laws of Florida, 1923, and Chapter 11325, Laws of Florida, 1925, said bonds to bear interest at the rate of six per cent (6%) per annum and to be dated July 1, 1926, interest payable semi-annually on July 1 and January 1 of each year, both principal and interest being payable at the National Bank of Commerce in the City of New York, State of New York, said bonds being of the denomination of One Thousand Dollars each and maturing as follows:

Bonds numbered from 1 to 28, inclusive, January 1, 1928.

Bonds numbered from 29 to 56, inclusive, January 1, 1929.

Bonds numbered from 57 to 84, inclusive, January 1, 1930.

Bonds numbered from 85 to 112, inclusive, January 1, 1931.

Bonds numbered from 113 to 140, inclusive, January 1, 1932.

Bonds numbered from 141 to 168, inclusive, January 1, 1933.

Bonds numbered from 169 to 196, inclusive, January 1, 1934.

Bonds numbered from 197 to 224, inclusive, January 1, 1935.

Bonds numbered from 225 to 252, inclusive, January 1, 1936.

Bonds numbered from 253 to 283, inclusive, January 1, 1937.

The full faith and credit of the City of Winter Park is irrevocably pledged for the payment of the principal and interest of said bonds.

This authorized issue of bonds to be sold subject to the approving opinion of Messrs. Caldwell & Raymond, Attorneys, to be furnished by the City of Winter Park to the purchaser thereof.

All bids must be accompanied by a certified check for two per cent (2%) of the amount of the bonds to be sold.

Bids may be submitted in the alternative as to rate of interest bonds are to bear, the alternative bid to be based on a rate of interest less than six per cent. AMOUNTS BID FOR SAID BONDS MUST BE STATED IN DOLLARS AND CENTS.

The City Commission of the City of Winter Park reserves the right to reject any and all bids.

By order of the City Commission of the City of Winter Park.

Dated this 6th day of July, A.D. 1926.

(Seal) E. F. BELLOWS.

City Clerk of the City of Winter Park.

FINANCIAL STATEMENT.

CITY OF WINTER PARK, FLORIDA.

JUNE 22, 1926.

Assessed valuation of Real Estate, personal and all other taxable property for year 1926	\$22,149,900.00
Bonded Indebtedness, excluding Water Bonds and Assessment Bonds	479,500.00
Water Bonds	129,000.00
Assessment Bonds	578,000.00
Water Main Extension Credits	87,300.00
Other Indebtedness	40,363.00
Cash Value of Sinking Funds on hand	43,919.72

The Municipality's power to tax for bonded debt service is unlimited.

Legal Bonded Debt Limit, exclusive of Water Bonds and Assessment, is 15% of assessed valuation.

Population, State Census 1924, 2700.

Population, estimated present, 4500.

Winter Park was incorporated October 12, 1887.

Interest and principal of bonds previously issued have always been promptly paid at maturity.

I hereby certify that the foregoing statement is, to the best of my knowledge and belief, true and correct.

In Witness Whereof I have hereunto set my hand and seal this twenty-second day of June, A.D. 1926.

(Seal) E. F. BELLOWS,
Clerk of the City of Winter Park, Fla.

Bids close August 9, 1926.

Road Paving

Durham, N.C.

Sealed proposals will be received by the Board of County Commissioners of Durham County at the Courthouse in Durham, N.C., until noon (12 o'clock) August 9, 1926, for grading and paving three miles of the New Hope Valley Road.

The work will consist of about:

32,000 sq. yds. of asphalt or concrete or other pavement, with the necessary excavation, storm-water drains and other appurtenances.

Proposals must be marked "Proposal for Paving."

All bids must be upon blank forms provided in the Proposal, Specifications and Contract.

Each bid must be accompanied by a certified check for \$3000 as evidence of good faith.

Plans and specifications will be on file at the County Clerk's office in Durham, N.C., and at the office of the Engineer in Durham, and copies of the form of proposal will be mailed upon application to the Engineer at Durham, N.C.

The right is reserved to reject any or all bids.

H. L. CARVER, Chairman.

GILBERT C. WHITE CO., Engineer,
Durham, N.C.

Bids close July 27, 1926.

Highway Construction

DEPARTMENT OF PUBLIC WORKS

STATE OF MARYLAND

STATE ROADS COMMISSION

NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building one section of State Highway as follows:

Baltimore City, Cont. BC-63—One section of State Highway along the Belair Road from Franklin Avenue to Hamilton Avenue, a distance of 0.46 mile. (Sheet Asphalt.)

Will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 27th day of July, 1926, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form, which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 12th day of July, 1926.

JOHN N. MACKALL, Chairman.

L. H. STEUART, Secretary.

Bids close August 3, 1926.

Highway Construction

DEPARTMENT OF PUBLIC WORKS

STATE OF MARYLAND

STATE ROADS COMMISSION

NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building three sections of State Highway as follows:

Frederick County, Cont. F-94—One section of State Highway from Thurmont to Graceham, a distance of 1.34 miles. (Macadam Resurfacing.)

Montgomery County, Cont. M-71—One section of State Highway along Wilson Lane from Bethesda toward Glen Echo, and along the Old Georgetown Road from Bethesda toward Beane for a distance of 2.0 miles. (Concrete Shoulders.)

Montgomery County, Cont. M-73—One section of State Highway along the Rockville Pike from the District Line through Bethesda for a distance of 1.61 miles. (Concrete.)

Will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 3d day of August, 1926, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form, which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charge will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 17th day of July, 1926.

JOHN N. MACKALL, Chairman.

L. H. STEUART, Secretary.

Bids close August 11, 1926.

Highway Construction

Sealed proposals will be received by the State Highway Department at its office, Dover, Delaware, until 2 o'clock P.M. August 11, 1926, and at that place and time publicly opened, for contracts involving the following approximate quantities:

CONTRACT CN30.

Richardson Park-Lancaster Pike, 1.68 Miles.

4,700 Cu. Yds. Excavation.

200 Cu. Yds. Borrow.

60 Cu. Yds. Rock Excavation.

80 Tons Broken Stone Base Course.

2,930 Cu. Yds. Cement Concrete Pavement.

8,850 Lin. Ft. Longitudinal Metal Joint.

340 Cu. Yds. Class "A" Concrete.

25,000 Lbs. Reinforcement.

370 Lin. Ft. 15-in. R. C. Pipe.

30 Lin. Ft. 18-in. R. C. Pipe.

30 Lin. Ft. 36-in. R. C. Pipe.

120 Lin. Ft. Relaid Pipe.

400 Lin. Ft. Wire Cable Guard Rail.

1,200 Lin. Ft. Wood Shoulder Curb.

CONTRACT CN31A.

Rogers Corner-Eden Park, 0.80 Miles.

4-10 Acres Clearing.

4-10 Acres Grubbing.

1,350 Cu. Yds. Excavation.

700 Cu. Yds. Borrow.

420 Cu. Yds. 1:2:3 Cement Concrete Pavement.

900 Tons Amiesite.

25 Cu. Yds. Class "A" Concrete.

600 Lbs. Reinforcement.

260 Lin. Ft. 15-in. Corrugated Metal Pipe.

20 Lin. Ft. 18-in. Corrugated Metal Pipe.

80 Lin. Ft. Relaid Pipe.

350 Sq. Yds. Class "A" Concrete Gutter.

CONTRACT CS55.

Selbyville-Williamsville, 4.2 Miles.

3 Acres Clearing.

3 Acres Grubbing.

9,500 Cu. Yds. Excavation.

1,000 Cu. Yds. Borrow.

34,400 Sq. Yds. Sand Asphalt.

80 Cu. Yds. Class "A" Concrete.

1,800 Lbs. Reinforcement.

700 Lin. Ft. 15-in. Corrugated Metal Pipe.

96 Lin. Ft. 18-in. Corrugated Metal Pipe.

30 Lin. Ft. 24-in. Corrugated Metal Pipe.

30 Lin. Ft. 30-in. Corrugated Metal Pipe.

30 Lin. Ft. 36-in. Corrugated Metal Pipe.

CONTRACT F.

One Portable Gasoline-driven Air Compressor.

Capacity 90 C. F. M., 100 pounds Pressure.

Performance of contract shall commence within ten (10) days after execution of the contract and be completed as specified.

Monthly payments will be made for 90 per cent of the construction completed each month.

Bidders must submit proposals upon forms provided by the Department.

Each proposal must be accompanied by a surety bond, certified check or money to the amount of at least ten (10) per centum of the total amount of the proposal.

The envelope containing the proposal must be marked "Proposal for the Construction of State Highway Contract No."

The Contract will be awarded or rejected within twenty (20) days from the date of opening proposals.

The right is reserved to reject any or all bids.

Detailed plans may be seen and index plans and specifications may be obtained upon receipt of two dollars (\$2), which amount will not be refunded.

STATE HIGHWAY DEPARTMENT.

Dover, Delaware.

PROPOSALS

Manufacturers Record

Bids close July 28, 1926.

Street Improvements

DEPARTMENT OF PUBLIC WORKS BUREAU OF HIGHWAYS

Baltimore, Md., July 14, 1926.

Separate sealed Proposals, executed in duplicate, addressed to the Board of Awards, care of the City Register, will be received by him in his office until 11 A. M. Wednesday, July 28, 1926, to grade, curb and pave with Sheet Asphalt on concrete base and Cement Concrete the streets listed in Contracts Nos. 355, 356 and 357.

Contract No. 355
Sheet Asphalt, 11,220 square yards
Certified check \$950
Contract No. 356
Grading, 7000 cubic yards
Certified check \$100
Contract No. 357
Cement Concrete, 9370 square yards
Certified check \$550

Specifications and proposal sheets and all other information can be obtained at this office, Room 207½, City Hall. A charge of \$10 will be required for specifications covering each contract, which charge will not be refunded.

The Board of Awards reserves the right to reject any or all bids. A certified check of the bidder on a clearing-house bank, drawn to the order of the Mayor and City Council of Baltimore, to the amount as recited in the specifications must accompany each bid.

Bond in the amount of the contract price will be required of the successful bidder.

STEUART PURCELL,
Highways Engineer.

Approved:
HOWARD W. JACKSON,
President Board of Awards.

Approved:
B. L. CROZIER,
Chief Engineer.

Approved:
JOSEPH PATTI, Jr.,
Assistant City Solicitor.

Bids close July 27, 1926.

Street Paving

Franklin, Ky.

Sealed bids for Main Street Paving Improvements at Franklin, Kentucky, will be received by the Board of Council at the office of the Mayor until 1 P. M. July 27, 1926, at which time they will be publicly opened and read.

The work comprises grading, constructing concrete curb and gutters, resurfacing the existing macadam pavement for a foundation, constructing new macadam foundation where necessary and surfacing this foundation with Rock Asphalt mined in Kentucky. Approximate quantities of principal items:

- 24,060 cu. yds. surface.
- 9,960 lin. ft. concrete curb and gutter.
- 4,250 lin. ft. concrete shoulders.
- 3,000 cu. yds. roadway excavation.
- 6,820 tons crushed rock rolled in place.

Plans and specifications may be examined at the office of the City Clerk at Franklin or at the office of the Engineers, or a copy may be obtained from the Engineers upon receipt of a deposit of ten dollars, of which amount five dollars will be refunded when the plans and specifications are returned in good condition. If further information is desired, address the Engineers.

The right is reserved to reject any or all bids and to waive informalities.

Each bid must be accompanied by a certified check drawn on a responsible bank or trust company and made payable to the City Treasurer, City of Franklin, Ky., for a sum not less than 1% of the bid. The successful bidder will be required to furnish performance bond and a five-year maintenance bond in the sum of 100% of the contract price.

The Contractor will be paid in cash on the completion of the work for that part of the work for which the city is liable; he will be paid in cash or bonds for the abutting property owners' part, as set out in the improvement ordinance.

P. E. LEWIS, Mayor.

KLYCE & HARRUB, Engineers.
506 Fourth & First National Bank Bldg.,
Nashville, Tennessee.

Bids close August 3, 1926.

Street Paving

Milledgeville, Ga.

Sealed proposals for the paving of certain streets in Milledgeville, Georgia, will be received by the City Council at their office at or before 2 o'clock P. M. August 3, 1926.

Bids will be received on the different types of hard-surface pavements for approximately twenty-two thousand five hundred square yards of pavement and the necessary curb, gutter and storm drainage.

Each bid must be accompanied by a Cashier's Check in the sum of Two Thousand (\$2000) Dollars, made payable to the Treasurer of the City of Milledgeville.

Plans and specifications may be seen at the office of the City Clerk and the office of the Engineer. Specifications will be mailed upon application.

The right is reserved to reject any and all bids.

By order of the City Council.

J. H. ENNIS, Mayor
L. H. ANDREWS,
RICHARD BINION,
LEWIS FLEMISTER,
JOHN W. HUTCHINSON,
L. D. SMITH,
R. L. WALL,

Aldermen.

R. T. BAISDEN, Sr.,
City Clerk and Treasurer.
THE HARWOOD BEEBE CO.,
Municipal Engineers,
Spartanburg, S. C.

Bids close July 26, 1926.

Street Improvements

Lawrenceville, Va.

Sealed bids will be received by G. W. Wesson, Mayor, Lawrenceville, Virginia, until 2 P. M. July 26, 1926, for furnishing all material, grading, paving and otherwise improving the streets in the City of Lawrenceville as named and set forth in the plans and specifications for the work.

The work will include approximately sixteen thousand (16,000) square yards of pavement, three (3) thousand square yards of sidewalk and thirty-five hundred (3500) cubic yards of excavation, including necessary catch basins and other appurtenances.

Plans and specifications are on file with the Mayor at Lawrenceville, Va., and with the Engineers, Benton, Benton & White, at Wilson, N. C., and copies may be had upon deposit of \$10, which sum will be refunded to anyone submitting a bona fide bid.

Bids are to be made on blanks in the Proposal, and must be accompanied by a certified check in the sum of three (3%) per cent of the amount of the bid.

The city reserves the right to accept or reject any or all bids.

G. W. WESSON, Mayor.
J. W. UPCHURCH, Clerk.

BENTON, BENTON & WHITE, Engineers,
Wilson, N. C.

Bids close August 2, 1926.

Water Mains and Appurtenances

Towson, Maryland, July 6, 1926.

Sealed Proposals, addressed to the County Commissioners of Baltimore County, and endorsed bids for the laying of water mains and appurtenances thereto, in "BELAIR ROAD, PHILADELPHIA ROAD AND LIBERTY HEIGHTS AVENUE," will be received at their office in the Courthouse, Towson, Maryland, until 11 A. M. Eastern Standard time, on August 2 next, when they will be publicly opened and read.

PROPOSAL No. 10-W.

200 lin. ft. earth excavation and refill for 6-inch pipe.
50 lin. ft. Class "A" rock excavation and earth refill for 6-inch pipe.
50 lin. ft. Class "B" rock excavation and earth refill for 6-inch pipe.
50 lin. ft. Class "C" rock excavation and earth refill for 6-inch pipe.
400 lin. ft. tunneling and rammed backfill at street crossings for 6-inch pipe.

70 lin. ft. earth excavation and refill for 8-inch pipe.

10 lin. ft. Class "A" rock excavation and earth refill for 8-inch pipe.

10 lin. ft. Class "B" rock excavation and earth refill for 8-inch pipe.

10 lin. ft. Class "C" rock excavation and earth refill for 8-inch pipe.

200 lin. ft. tunneling and rammed backfill at street crossing for 8-inch pipe.

30 lin. ft. earth excavation and refill for 10-inch pipe.

10 lin. ft. Class "A" rock excavation and earth refill for 10-inch pipe.

10 lin. ft. Class "B" rock excavation and earth refill for 10-inch pipe.

10 lin. ft. Class "C" rock excavation and earth refill for 10-inch pipe.

60 lin. ft. tunneling and rammed backfill at street crossing for 10-inch pipe.

10,150 lin. ft. earth excavation and refill for 12-inch pipe.

500 lin. ft. Class "A" rock excavation and earth refill for 12-inch pipe.

300 lin. ft. Class "B" rock excavation and earth refill for 12-inch pipe.

100 lin. ft. Class "C" rock excavation and earth refill for 12-inch pipe.

100 lin. ft. tunneling and rammed backfill at street crossings for 12-inch pipe.

11,600 lin. ft. earth excavation and refill for 16-inch pipe.

600 lin. ft. Class "A" rock excavation and earth refill for 16-inch pipe.

500 lin. ft. Class "B" rock excavation and earth refill for 16-inch pipe.

200 lin. ft. Class "C" rock excavation and earth refill for 16-inch pipe.

100 lin. ft. tunneling and rammed backfill at street crossings for 16-inch pipe.

150 lin. ft. earth excavation and refill for 20-inch pipe.

50 cu. yds. miscellaneous and test pit earth excavation and refill.

430 lin. ft. concrete repaving of roadway.

PROPOSAL No. 11-W.

750 lin. ft. laying 6-inch mains, valves, fittings, lead joints.

Alternate bid, leadite joints.

300 lin. ft. laying 8-inch mains, valves, fittings, lead joints.

Alternate bid, leadite joints.

120 lin. ft. laying 10-inch mains, valves, fittings, lead joints.

Alternate bid, leadite joints.

11,350 lin. ft. laying 12-inch mains, valves, fittings, lead joints.

Alternate bid, leadite joints.

13,000 lin. ft. laying 16-inch mains, valves, fittings, lead joints.

Alternate bid, leadite joints.

150 lin. ft. laying 20-inch mains, valves, fittings, lead joints.

Alternate bid, leadite joints.

27 each placing fire hydrants.

Each bid, excavating and laying, must be separately totaled and each accompanied by a certified check for Twenty-five Hundred (\$2500) Dollars, payable to the County Commissioners, as a guarantee that the successful bidder will sign the contract.

A bond for an amount equal to the amount of the bid of a surety company satisfactory to the Commissioners will be required of the successful bidder.

A copy of the Specifications, Plans and Drawings will be furnished prospective bidders on receipt of a certified check for Twenty-five (\$25) Dollars, refund of which will only be made upon receipt of a bona fide bid and return of the specifications and drawings to the office of the Chief Engineer of the Baltimore County Metropolitan District within ten (10) days after opening of the bids and award of the contract. No specifications or drawings will be issued after Thursday, July 29, 1926. Specifications and drawings can be seen at the office of the Chief Engineer of the Baltimore County Metropolitan District, Towson, Md., after July 12, 1926.

Consideration will be given bidder's experience (must be stated in or attached to the bid), financial standing and reputation for having done successful work of the kind specified without controversy or litigation, and the Commissioners reserve the right to reject any or all proposals or bids, or parts of bids, or to accept any or all bids, or to separate bids for the excavation and refill from laying of the pipe and setting hydrants, or to waive technicalities as they may deem best for the interest of the county.

By order of the Board.

JOHN R. HAUT, Chief Clerk.

A. E. WALDEN, Chief Engineer.

Bids close August 3, 1926.

Paving and Sewers

Melbourne, Fla.

City Commission of Melbourne, Florida, will receive sealed proposals for construction of macadam base, with bituminous surface street paving and storm sewers, aggregating three hundred thousand (\$300,000) dollars, at 2 P. M. Tuesday, August 3, 1926.

Bidder's bond or cashier's check for ten thousand (\$10,000) dollars required. Full information upon application.

W. K. SEITZ,
City Manager.

Bids close August 3, 1926.

Water-Works Distribution System

Fort Lauderdale, Fla.

Sealed proposals for furnishing material and constructing a Water-Works Distribution System and Supply Mains for the City of Fort Lauderdale, Florida, will be received by the Mayor and Board of Commissioners at the City Manager's Office until 1 P. M. August 3, 1926.

The additions to be constructed will consist of approximately fifty (50) miles of 6-inch, 10-inch, 12-inch, 16-inch and 24-inch cast iron pipe, with specials, valves and hydrants, including flexible joint submerged pipe.

Each proposal must be accompanied by a certified check, payable to the City of Fort Lauderdale, Florida, to an amount equal to five (5) per cent of the bid as a guarantee that the contract will be entered into if awarded. Bidder's bonds will not be accepted. A bond in the full amount of the contract price will be required. Payments will be made in cash on monthly estimates.

Plans and specifications are on file in the office of the City Manager at Fort Lauderdale, Florida, and with Solomon, Norcross & Keis, Consulting Engineers, Fort Lauderdale, Florida; 1404 Candler Building, Atlanta, Ga.

Bidders may obtain copies from the Engineers by enclosing certified check for twenty-five (\$25) dollars, payable to the City of Fort Lauderdale. If blueprints are desired they may be had at the cost of printing. If the plans, specifications and blueprints are returned within thirty days after opening bids the check for twenty-five dollars will be returned.

B. J. HORNE, City Manager.
SOLOMON, NORCROSS & KEIS,
Engineers,
Fort Lauderdale, Florida.
Atlanta, Ga.

Bids close July 29, 1926.

Water and Sewerage Systems

Liberty, N. C.

Sealed proposals will be received by the Mayor and Board of Aldermen of the Town of Liberty, N. C., until 2 o'clock P. M. Thursday, July 29, 1926, for the construction of water and sewerage systems.

Plans will be on file and may be examined at the office of the Mayor of Liberty and at the offices of Spoon, Lewis & Camp, Consulting Engineers, American Bank Building, Greensboro, N. C., after July 15, 1926. After that date Plans, Specifications, Bid and Contract forms may be secured from the Engineers upon receipt of \$15. of which \$5 will be returned upon return of the plans in good condition to the Engineers.

Each bid for the complete systems must be accompanied by a certified check or bidder's bond in the sum of \$3000, payable to the Treasurer of the Town of Liberty, N. C. Bids for separate parts shall be accompanied by certified checks to the amount of five (5%) per cent of the bid.

The attention of contractors bidding on this work is called to the Act of the General Assembly of North Carolina regulating the practice of general contracting, which requires that they, whether residents or non-residents of this State, must show evidence of a license before their bids may be considered.

Proposals will be received covering individual parts of the systems as well as for the complete systems. Proposals will be opened publicly, with the usual rights reserved, including the right to let separately certain units of which the complete systems are composed, if to the best interest of the town to do so.

BOARD OF ALDERMEN OF LIBERTY,
NORTH CAROLINA.
By R. C. REITZEL, Mayor.
SPOON, LEWIS & CAMP,
Consulting Engineers,
Greensboro and Asheville.
July 2, 1926.

Bids close July 26, 1926.

Sanitary Sewers and Appurtenances

Leetonia, Ohio.

Sealed proposals for the construction of Sanitary Sewers and appurtenances will be received by the Clerk of the Village of Leetonia, Ohio, at his office in the village hall until 12 o'clock noon, Central Standard time, July 26, 1926.

Charge for plans, \$10.
L. E. FISHER, Clerk.

Bids close August 10, 1926.

Sewage-Pumping Stations, Ejector Stations, Force Mains and Air Mains

Fort Lauderdale, Fla.

Sealed proposals for furnishing material and constructing three sewage pumping stations and five ejector stations, with force mains and air mains, for the City of Fort Lauderdale, Florida, will be received by the Mayor and Board of Commissioners at the City Manager's office until 1 o'clock P. M. August 10, 1926.

The pipe line to be constructed will consist of approximately six (6) miles of 4-inch, 6-inch, 10-inch, 12-inch, 16-inch, 20-inch and 24-inch cast-iron pipe, with specials, valves and hydrants, including flexible joint submerged pipe and approximately one (1) mile of 2½-inch and 2-inch galvanized iron pipe.

Each proposal must be accompanied by a certified check, payable to the City of Fort Lauderdale, Florida, to an amount equal to five (5%) per cent of the bid, as a guarantee that the contract will be entered into if awarded. Bidder's bonds will not be accepted. A bond in the full amount of the contract price will be required. Payments will be made in cash on monthly estimates.

Plans and specifications are on file in the office of the City Manager at Fort Lauderdale, Florida, and with Solomon, Norcross & Keis, Inc., Consulting Engineers, Granada avenue, Lauder-del-Mar, Fort Lauderdale, Florida, and 1404 Candler Building, Atlanta, Georgia.

Bidders may obtain copies from the Engineers by enclosing certified check for Twenty-five Dollars (\$25), payable to the City of Fort Lauderdale. If blueprints are desired they may be had at the cost of printing. If the plans, specifications and blueprints are returned within thirty days after opening bids, the check for twenty-five dollars will be returned.

B. J. HORNE, City Manager.
SOLOMON, NORCROSS & KEIS, INC.,
Engineers,
Fort Lauderdale, Fla.; Atlanta, Ga.

Bids close August 18, 1926.

Sanitary Sewer System

Sealed proposals will be received by the City Council of the City of Winter Park, Florida, until 8 o'clock P. M. on the 18th day of August, 1926, at the City Hall, for the furnishing of materials and construction of a SANITARY SEWER SYSTEM, consisting of the following items, to wit:

8,365 Lin. Ft. 24-in. sewer pipe, 0-18 ft. cut.
1,874 Lin. Ft. 21-in. sewer pipe, 6 ft.-18 ft. cut.
3,337 Lin. Ft. 18-in. sewer pipe, 6 ft.-10 ft. cut.
570 Lin. Ft. 15-in. sewer pipe, 0-18 ft. cut.
760 Lin. Ft. 12-in. sewer pipe, 10 ft.-12 ft. cut.
3,475 Lin. Ft. 10-in. sewer pipe, 0-12 ft. cut.
20,480 Lin. Ft. 8-in. sewer pipe, 0-10 ft. cut.
250 Lin. Ft. 24-in. C. I. Pipe on piers.
120 Lin. Ft. 16-in. C. I. Pipe, inverted siphon, 12 ft. to 14 ft. cut.
5,700 Lin. Ft. 10-in. C. I. Pipe force mains, 0-4 ft. cut.
98 Standard Manholes, 0-18 ft. Vertical Height.
100 Vertical Feet Drop Manholes.
32 Flush Tanks, 5-in. Siphon.
3 Clean-out Boxes.
850 Lin. Ft. House Connections.
100 M. Ft. B. M. Lumber Foundation.
20 Cubic Yards Class "A" Concrete.
50 Cubic Yards Class "B" Concrete.
18,164 Sq. Yds. Sand-Filled Brick Pavement relaid.

9,000 Sq. Yds. Cement Grouted Brick Pavement relaid.
2 Sewage Pumping Stations complete.
1 Disposal Plant.

4 Centrifugal Pump Units.
Bids will be received on the whole or any section of the work.

Plans and specifications may be examined at the office of the Clerk at the City Hall, Winter Park, Fla., or at the office of the Engineer, in New Smyrna, Fla. Copies of the specifications may be obtained from the above places upon receipt of Five Dollars, which will be returned on a bona fide bid. Copies of the plans may be obtained upon receipt of Fifteen Dollars.

Each bidder must accompany bid with a certified check or bidder's bond for an amount not less than five per cent of the amount bid, drawn to the order of the City of Winter Park, Florida.

The right is reserved to reject any and all bids in whole or in part.
(Seal)

C. FRED WARD,
Mayor of City of Winter Park.
E. F. BELLOWS,
Clerk.

N. A. HOTARD,
Engineer.

Bids close August 2, 1926.

Sewers and Appurtenances

Towson, Md., July 6, 1926.

Sealed Proposals addressed to the County Commissioners of Baltimore County and endorsed bids for the laying of Sewers and Appurtenances thereto, in "CATONSVILLE, PARKVILLE AND PIKESSVILLE," will be received at their office in the Courthouse, Towson, Maryland, until 11 A. M. Eastern Standard time, on August 2, when they will be publicly opened and read.

PROPOSAL NO. 8-S.
43,024 Lin. Ft. 8-inch T. C. Sewer.
2,237 Lin. Ft. 10-inch T. C. Sewer.
2,230 Lin. Ft. 12-inch T. C. Sewer.
1,130 Lin. Ft. replacing existing 10-inch with 12-inch T. C. Sewer.
18,000 Lin. Ft. 6-inch House Connections.
50 6x6 Y-branches.
1,500 8x8 Y-branches.
32 10x6 Y-branches.
101 12x6 Y-branches.
1,830 Lin. Ft. 6-inch C. I. Force Main.
2,042 Lin. Ft. 8-inch C. I. Force Main.
5,000 Lin. Ft. 4-inch Tile Underdrain.
1,000 Lin. Ft. 6-inch Tile Underdrain.
166 Manholes.
3,850 Cu. Yds. Rock Excavation.
1,600 Cu. Yds. Misc. and Test Pit Earth Excavation.
1,000 Cu. Yds. Earth Excavation and Refill below Subgrade.
1,000 Cu. Yds. Earth Excavation and Gravel Refill below Subgrade.
10,000 Sq. Ft. Concrete Sidewalk Repaving.
1,000 Lin. Ft. Earth Excavation in tunnel under State Roads.
1,000 Lin. Ft. Permanent Repaving, limestone concrete.
5,000 Lin. Ft. Permanent Repaving, macadam.

Each bid must be accompanied by a certified check for Thirty-five Hundred (\$3500) Dollars, payable to the County Commissioners, as guaranteed that the successful bidder will sign the contract.

A bond for an amount equal to the amount of the bid of a surety company satisfactory to the Commissioners will be required of the successful bidder.

A copy of the Specifications, Plans and Drawings will be furnished prospective bidders on receipt of a certified check for Twenty-five (\$25) Dollars, refund of which will only be made upon receipt of a bona fide bid and return of the specifications and drawings to the office of the Chief Engineer of the Baltimore County Metropolitan District within ten (10) days after opening of the bids and award of the contract. No specifications or drawings will be issued after Thursday, July 29, 1926. Specifications and drawings can be seen at the office of the Chief Engineer of the Baltimore County Metropolitan District, Towson, Md., after July 12, 1926.

Consideration will be given bidder's experience (must be stated in or attached to the bid), financial standing and reputation for having done successful work of the kind specified without controversy or litigation, and the Commissioners reserve the right to reject any or all proposals or bids, or to accept any proposals or bid, or to waive technicalities, as they may deem best for the interest of the county.

By order of the Board.
JOHN R. HAUT, Chief Clerk.
A. E. WALDEN, Chief Engineer.

PROPOSALS

Manufacturers Record

Bids close August 11, 1926.

Intercepting Sewer

Norristown, Pa.

Sealed bids will be received at the Borough Hall, Norristown, Pa., until 7 P. M. (Standard Time) Wednesday, August 11, 1926, at which time they will be publicly opened and read, for constructing the southwest main intercepting sewer, which will constitute 1350 feet of 15-inch vitrified pipe in open cut, 2200 feet 15-inch vitrified pipe in tunnel, 19 manholes and miscellaneous appurtenances.

Plans, specifications and bidding blanks may be obtained from the Borough Engineer, Borough Hall, Norristown, Pa., or Albright & Mebus, Consulting Engineers, 1502 Locust street, Philadelphia, Pa. A deposit of \$10 will be required, which sum will be refunded upon the return of said plans and specifications to the Engineers in good condition.

Bids must be accompanied by a certified check amounting to not less than three (3%) per cent of the total of bid tendered.

The sewer committee of the Council reserves the right to reject any or all bids.

H. S. BORNEMAN,
Secretary, Council.

Bids close August 4, 1926.

College Building and Power House

Baltimore, Md., July 15, 1926.

PROPOSALS will be received by the Board of Awards of Baltimore City for furnishing all labor and materials necessary to erect complete the Baltimore City College Main Building and Power House, on lot bounded by Gorsuch and Montebello avenues, Thirty-third street and The Alameda, Baltimore, Md.

Bids must be executed in duplicate and enclosed in sealed envelopes, addressed to the Board of Awards of Baltimore City, marked on the outside:

"PROPOSALS FOR BALTIMORE CITY COLLEGE MAIN BUILDING AND POWER HOUSE."

and left with Mr. F. A. Doisfield, City Register, at his office in the City Hall, on or before 11 o'clock A. M. Wednesday, August 4, 1926.

Each bid must be accompanied by a certified check of the bidder on some clearing-house bank in the amount of FIFTY THOUSAND DOLLARS (\$50,000), made payable to the Mayor and City Council of Baltimore.

The successful bidder will be required to give bond and to comply with the City Charter respecting contracts.

Drawings and specifications may be seen at the office of the Supervising Engineer of the Public Improvement Commission, 518 Hearst Tower Building, on and after Friday, July 16, 1926, on deposit of certified check for \$150.

The Board reserves the right to reject any or all bids.

PUBLIC IMPROVEMENT COMMISSION.

H. G. PERRING,
Supervising Engineer.

Approved:
B. L. CROZIER,
Chief Engineer.

Approved:
HOWARD W. JACKSON,
President Board of Awards.

Approved:
JOSEPH PATTI, Jr.,
Assistant City Solicitor.

Bids close August 12, 1926.

Sewage-Treatment Plant

Fort Lauderdale, Fla.

Sealed proposals for the furnishing of materials and constructing a sewage-disposal plant will be received by the Mayor and Board of Commissioners of the City of Fort Lauderdale, Fla., at City Manager's Office, Fort Lauderdale, Fla., until 1 P. M. August 12, 1926, at which time all proposals will be publicly opened and read.

The work will consist of a three-million-gallon daily capacity sewage-treatment plant, including reinforced concrete, pre-sedimentation tanks, aeration tanks, sedimentation tanks, sludge tanks and power plant and equipment.

Each proposal must be accompanied by a certified check, payable to the City of Fort Lauderdale, Fla., in an amount equal to five (5) per cent of the bid as a guarantee that the contract will be entered into if awarded. A bond for one hundred (100) per cent of the contract price will be required. Payments will be made in cash on monthly estimates.

Plans and specifications are on file at

the office of the City Manager, Fort Lauderdale, Fla., and with Solomon, Norcross & Keis, Consulting Engineers, Fort Lauderdale, Fla., and 1404 Candler Building, Atlanta, Ga.

Bidders may obtain copies of the specifications from the Consulting Engineers by enclosing certified check for twenty-five (\$25) dollars, payable to the City of Fort Lauderdale, Fla. Blueprints may be had at the cost of printing. If plans, specifications and blueprints are returned within thirty days after opening bids the check for the twenty-five (\$25) dollars will be returned.

B. J. HORNE, City Manager.
SOLOMON, NORCROSS & KEIS,
Consulting Engineers,
Fort Lauderdale, Fla.;
Atlanta, Ga.

Bids close August 2, 1926.

School Building

Sealed proposals will be received by Mr. J. R. Boylston, Chairman, School Board, Allendale, S. C., on Monday, August 2, 1926, at 12 o'clock noon, for the erection of Allendale School, Allendale, S. C., according to plans and specifications prepared by Willis Irvin, Architect, Augusta, Ga.

Plans and specifications may be secured from Architect upon a deposit of \$25 by Contractors, WHICH DEPOSIT WILL POSITIVELY NOT BE RETURNED UNLESS A BONA FIDE BID IS MADE, AND THE PLANS AND SPECIFICATIONS RETURNED IN GOOD CONDITION TO THE ARCHITECTS. Building Contractors may secure extra sets of plans upon payment of \$5.00 per set to cover printing costs, these plans to remain the property of the Architect.

Plans will be on file in the office of Mr. J. R. Boylston, Allendale, S. C.; Augusta Builders Exchange, Augusta, Ga., and the office of Willis Irvin, Architect, Southern Finance Building, Augusta, Ga.

Proposals for the erection of the building shall be accompanied by certified check for \$1000, and the said check to be made payable to Mr. J. R. Boylston, Chairman.

Surety bond will be required of successful bidder.

The right to reject any or all bids is reserved.

J. R. BOYLSTON, Chairman,
Allendale, S. C.

Bids close August 5, 1926.

Water-Treatment Plant and Pumping Stations

Fort Lauderdale, Fla.

Sealed proposals for furnishing materials and constructing a water-treatment plant and pumping stations will be received by the Mayor and Board of Commissioners of the City of Fort Lauderdale, Fla., at the City Manager's Office, Fort Lauderdale, Fla., until 1 P. M. Thursday, August 5, 1926, at which time they will be publicly opened and read.

The work will consist of a four (4) million gallon daily capacity softening and purification plant, including reinforced concrete mixing and subsidence basins, filters, chemical house and equipment, pumping equipment, three (3) million gallon capacity clear well and low-service pumping stations.

Each proposal must be accompanied by a certified check, payable to the City of Fort Lauderdale, Fla., in an amount equal to five (5) per cent of the bid as a guarantee that the contract will be entered into if awarded. A bond for one hundred (100) per cent of the contract price will be required. Payments will be made in cash on monthly estimates.

Plans and specifications are on file at the office of the City Manager, Fort Lauderdale, Fla., and with Solomon, Norcross & Keis, Consulting Engineers, Fort Lauderdale, Fla., and 1404 Candler Building, Atlanta, Ga.

Bidders may obtain copies of the specifications from the Consulting Engineers by enclosing certified check for twenty-five (\$25) dollars, payable to the City of Fort Lauderdale, Fla. Blueprints may be had at the cost of printing. If plans, specifications and blueprints are returned within thirty days after opening bids the check for the twenty-five (\$25) dollars will be returned.

B. J. HORNE, City Manager.
SOLOMON, NORCROSS & KEIS,
Consulting Engineers,
Fort Lauderdale, Florida.
Atlanta, Ga.

Complete Town

Want complete town built at Norfolk, Virginia; golf links, houses, etc. Don't answer unless can assist handling our bonds. A boom starting here; millions Northern capital being spent by P. R. R. and others. PENNSYTOWN CORP.

Bids close August 3, 1926.

Combined Pumper and Chemical Fire Truck

Brookhaven, Miss.

The Board of Mayor and Aldermen will at their regular meeting to be held in the City Hall in Brookhaven, Miss., on Tuesday, August 3, 1926, receive bids for supplying the City of Brookhaven with a combined Pumper and Chemical Fire Truck. Prices submitted are to be for a complete payment of such apparatus at the end of a five-year period.

Further and more explicit information can be obtained from Perry A. Coker, City Clerk, who will furnish bidders with additional data.

The Board reserves the right to reject any and all bids should they see proper or have reason so to do.

By order of the Board this, the 6th day of July, 1926.

PERRY A. COKER,
City Clerk.

Bids close July 27, 1926.

Steel Cages for Jail

Stuart, Fla.

Sealed Proposals will be received by the Board of County Commissioners of Martin County, Florida, at the County Courthouse, Stuart, Florida, until 10 A. M. July 27, 1926, for the construction of steel cages for temporary County Jail.

Contractors are required to submit plans and specifications for the proposed work, to comply with the general plans on file in the office of the County Engineer, Stuart, Fla.

Certified check for two per cent of the amount bid is hereby required with each bid, and a bond for the contract price will be required of the successful bidder, such bond to be a bond with a reputable and responsible security company as surety and written by a company or companies having as agents resident citizens of Martin County, Florida.

The Board of Commissioners reserves the right to reject any and all bids.

H. N. GAINES,
Chairman Board of County Commissioners.
E. H. GIBSON, County Engineer.

Bids close August 4, 1926.

Collection and Hauling of Refuse and Rubbish

DEPARTMENT OF PUBLIC WORKS
BUREAU OF STREET CLEANING

Baltimore, Md., July 14, 1926.

Sealed proposals, executed in duplicate, addressed to the Board of Awards, care of the City Register, will be received by him in his office until 11 A. M. Wednesday, August 4, 1926, for the Collection and Hauling of Refuse and Rubbish for a period of five years.

Specifications and Proposal Sheets and all other information can be obtained at the Bureau of Street Cleaning in City Hall Annex No. 2, Guilford avenue north of Lexington street.

A charge of \$10 will be required for the specifications covering the work, which charge will not be refunded.

The Board of Awards reserves the right to reject any or all bids.

A certified check in the amount of \$5000 of the bidder on a clearing-house bank, drawn to the order of the Mayor and City Council of Baltimore, must accompany each bid.

Bond in the amount of \$100,000 will be required of the successful bidder.

WM. A. LARKINS,
Engineer of Street Cleaning.

Approved:
B. L. CROZIER,
Chief Engineer.
HOWARD W. JACKSON,
President Board of Awards.
JOSEPH PATTI, Jr.,
Assistant City Solicitor.

Bids close August 17, 1926.

Garbage and Refuse Destructor

Memphis, Tenn., July 20, 1926.

Notice is hereby given that sealed proposals will be received at the office of C. C. Pashby, City Clerk, until 2:30 o'clock P. M. Tuesday, August 17, 1926, for furnishing all labor, materials, hauling, tools for and constructing a Garbage and Refuse Destructor under the following general conditions:

Bidder to furnish plans and specifications. Capacity from sixty tons to eighty tons in ten hours.

Bidder to state guaranteed operation.

To be built for the future addition of a duplicate unit, one stack to serve both units.

Building to be of fireproof construction, of steel and brick, or concrete and brick. Bidder's design.

The property to be furnished by the City of Memphis. Bids to be received on the completed job, including building and foundation.

Separate bids must be submitted on building, extra foundation and excavation and on destructor units.

Time of completion must be stated in proposal.

Bidder must make an investigation and study of City of Memphis' Method of Collection, Materials Collected and kind of Equipment used in hauling.

The City of Memphis reserves the right to reject any and all bids.

A certified check for one thousand (\$1000) dollars on some solvent bank, payable to the order of the City of Memphis, or a bidder's bond for a like amount, conditioned on the bidder executing the contract, if awarded to him, shall accompany the proposal.

Said check, bond or order, as the case may be, will be returned to the unsuccessful bidder upon award of the contract, and to the successful bidder when he makes approved

bond and signs contract for the faithful performance of the work.

Cash payment for this work will be made by the City of Memphis by order of the Board of Commissioners of the City of Memphis.

ROWLETT PAYNE, Mayor.

Attest:
C. C. PASHBY, City Clerk.

Bids close August 9, 1926.

Fire Pumps and Motors

Sealed proposals will be received by the Board of Town Commissioners of the Town of Littleton, North Carolina, until 8 o'clock P. M. Monday, August 9, 1926, for purchasing, for cash, the following machinery:

1 500 G.P.M., at 100 pounds working pressure, Centrifugal Fire Pump, direct connected to 2200 volt Electric Motor.

1 500 G.P.M., at 100 pounds working pressure, Centrifugal Fire Pump, direct connected to Gasoline Motor.

All prices, if not f. o. b. cars Littleton, N. C., should be guaranteed freight to Littleton, N. C.

All accessories furnished should be fully itemized and all details of bids stated clearly in order that bids may be compared intelligently.

All bids should state how soon shipment can be made after contract has been accepted.

All Equipment furnished should conform to the Regulations of the National Board of Fire Underwriters for the Installation of Centrifugal Fire Pumps and for Electrical Driving and Gasoline Engine Driving of Fire Pumps.

The right is reserved to accept any bid or to reject any or all bids, as may be decided by the Board of Town Commissioners.

BOARD OF TOWN COMMISSIONERS,
LITTLETON, N. C.
By E. C. BOBBITT, Clerk.

Bids close July 28, 1926.

School Furniture and Equipment

DEPARTMENT OF EDUCATION
OFFICE OF THE
BOARD OF SCHOOL COMMISSIONERS
MADISON AND LAFAYETTE AVENUES
Baltimore, July 14, 1926.

Separate sealed proposals endorsed:
"Proposals for Special Furniture and Equipment for the Department of Education."

"Proposals for Athletic Supplies for the Department of Education."

"Proposals for Playground and Gymnasium Equipment for the Department of Education," and

"Proposals for Furnishing Window Shades for the Department of Education," addressed to the Board of Awards of Baltimore City, will be received at the office of F. A. Dolfeld, Esq., City Register, City Hall, Baltimore, Md., until 11 o'clock A. M. Wednesday, July 28, 1926.

Specifications for the same may be obtained at the office of the Board of School Commissioners, Madison and Lafayette avenues.

Each bid for Special Furniture and Equipment must be accompanied by a certified check of the bidder for \$100, and for Athletic Supplies and Window Shades for \$50, made payable to the Mayor and City Council of Baltimore, and drawn on a clearing-house bank.

The successful bidder will be required to give bond for the faithful performance of his contract in an amount equal to the contract price, and to comply with the City Charter respecting contracts.

The Board of Awards reserves the right to reject bids for any or all items.

JOHN H. ROCHE,
Secretary Board of School Commissioners.
Approved July 14, 1926.

HOWARD W. JACKSON,
President Board of Awards.

CLASSIFIED OPPORTUNITIES**MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES**

FOR SALE—Timber Land, Mill Properties, Cut-Over Timber Lands, Water Frontage for subdivision, located Gulf Coast. H. H. WEFEL, JR., Mobile, Alabama.

IRON AND COAL PROPERTY**FOR SALE.**

Southern Iron and Coal Property. For particulars address No. 6603, care Manufacturers Record, Baltimore, Md.

MANGANESE MINE

MANGANESE MINE with washing-plant for sale, ready to operate; located in Virginia. For particulars address No. 6596, care Manufacturers Record, Baltimore, Md.

BROWN STONE QUARRIES

FOR SALE TO SETTLE ESTATE—Brownstone Quarries and 125-acre farm located in York Co., Penna., near Penna. R. R. line, Harrisburg, Pa., to Washington, D. C. Entire tract underlaid with the very best brownstone. Copies of U. S. report and Penn. Geological Survey, with sample of stone, sent on request. Personal investigation solicited; land not needed for immediate quarry purpose is well adapted for fruit or general farming; reasonable price and terms for prompt purchase.

REEHLING ESTATE, Steelton, Pa.

TIMBER AND TIMBER LAND
FOUR BILLION FEET LONG-LEAF YELLOW PINE.

Northern Mexico, dirt cheap, good logging conditions; Mexican laws not now unfavorable to this proposition. Will put buyer in direct touch with owner. Believe this to be a good buy.

LANGFORD-LATHAM & LEA,
Gulfport, Miss.

RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost allow seven words of ordinary length to a line. When the advertisement contains a number of long words proper allowance should be made. Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisement accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c per line; 300 lines, 26c per line; 500 lines or more, 25c per line.

FARM, FRUIT AND TRUCK LANDS

ALABAMA
WONDERFUL OPPORTUNITIES, with unlimited possibilities, for investment on the Gulf Coast at Mobile. The land that steals your heart away. We have factory sites, textile mill, central business property, farms, orange and pecan groves, timber tracts, cutover land, waterfront property, homes and desirable building lots at very attractive prices and easy terms. Write us for information and literature. GULF COAST INVESTMENT COMPANY, INC., REALTORS, 32-34 N. Royal St., Battle House Bldg., Mobile, Ala.

FLORIDA
ACREAGE AND FARM LANDS in large or small quantity. Nothing too small for our consideration. Our service is valuable, backed up by reliability.

GOODWIN & BAKER REALTY
CORPORATION.
Ft. Pierce, Florida.

FARM, FRUIT AND TRUCK LANDS**FLORIDA**

FLORIDA—The Land of Opportunity—more than \$15,250,000 in her State Treasury May 31 and no bonded indebtedness; no income or inheritance tax, ever; the "Playground of the Rich; Paradise of the Poor." Highest-priced crops produced in the Winter months. Send today for booklet and new list of Summer Farm and Grove Bargains. Tampa-West Coast Realty Co. (Inc.), Realtors, Opp. Post Office, "Since Before the War," Tampa, Florida.

**FLORIDA INVESTMENTS
MANATEE COUNTY.**

The county that stands seventh in production of fruit and vegetables in the U. S. A solid foundation back of your investments—Farm Lands—Business Properties—Lots or Acreage for Subdivisions.

Full information on request—we can buy for you and we can resell for profit.

References: Bradenton Bank & Trust Co.
MANATEE LAND SALES CO.,
Bradenton, Fla.

St. Petersburg Office—560 First Ave. North.

OWN SEVERAL TRACTS first-class citrus and truck land in Orange County, Florida. Will develop and cultivate part of land myself, as believe that NOW is the time to start. Will sell part of land, as have more than am able to develop. Will give purchaser choice of all land, sell in tracts of from 5 to 40 acres, and if desired will develop and cultivate for purchaser on contract. No better land in Florida; good roads, good schools, good markets and most of adjacent land already under cultivation. Write

G. B. HARTLEY,
FAIRMONT, WEST VIRGINIA.

CLASSIFIED OPPORTUNITIES

Manufacturers Record

FARM, FRUIT AND TRUCK LANDS

FLORIDA

CARR & CARR, INC.
WEST PALM BEACH, PALM BEACH,
LAKE WORTH.
References—Any bank or trust company
in Palm Beach County.

TWENTY ACRES AND
PLENTY.

Free book tells truth about Florida land;
monthly payments \$1 an acre. Orange
groves, planted, cared for, 10 per cent
above cost.

SYLVESTER E. WILSON,
Dept. X, Orlando, Fla.

MISSISSIPPI

BEAUTIFUL HOME SITES for private
estates or subdivision. Located on beautiful
Bay St. Louis, with 2500 feet of shell and
sandy bathing beach and 1200 feet of harbor
for boats in Bayou Lardasse, with area of
115 acres; 6 minutes' drive from depot, 80
minutes by train from New Orleans; 100
bearing pecan trees, stately pines, magnolias
and moss-hung oaks. Low price direct from
owner. **HARDY F. MULLIKIN**, Bay Saint
Louis, Miss.

NORTH CAROLINA

900 ACRES in Carolina's famous Peach
Belt. Ideal Peach land; \$25 per acre.
Z. V. PATE, Owner,
Laurinburg, N. C.

3000 ACRES, part good farming land,
adapted to growth of staple farm crops, bal-
ance very suitable for stock farm; \$20 per
acre. **Z. V. PATE, Owner**, Laurinburg, N. C.

For Solid Conservative Investment
CHARLOTTE REAL ESTATE
is worthy of your attention. No boom.
An all the year round business city on a
solid, conservative foundation and steady,
continual growth.

F. C. ABBOTT & COMPANY.
Nearly thirty years in Charlotte Real
Estate and Investments.
CHARLOTTE, N. C.

TEXAS

E. B. WITMER, Realtor,
First National Bank Building,
Mercedes, Texas.
City Property, Farms, Citrus Groves.
Large Acreage, irrigated and unirrigated.

BUSINESS OPPORTUNITIES

BUSINESS EXECUTIVE wanted to man-
age office of fast growing construction com-
pany doing business all over the Southeast;
party must invest some capital in business.
Address P. O. Box 660, Pensacola, Fla.

INVENTOR of coin-controlled gasoline-
vending pump wishes to form connection for
its manufacture and sale. **H. M. Walker**,
331 State street, New Orleans, La.

WANTED—A partner with small capital
to take active interest in a Manufacturing
Plant completely equipped for turning out
a standard wood product for which there is
ready sale to the jobbing trade. Pleasant
location in southern mountain section. Ad-
dress No. 6602, care Manufacturers Record.

TWO ENGINEERS are desirous of investing in a going man-
ufacturing proposition or engineering and
contracting business. Propositions must
bear closest scrutiny. Services of one or
both men available. Address No. 6608 care
of Manufacturers Record, Baltimore, Md.

FOR SALE—A WELL-EQUIPPED BAK-
ERY at Georgetown, S. C., for sale at a
reasonable price; fine opportunity for the
right man. Write for particulars or come
and inspect plant. **W. D. MORGAN**, Agent,
Georgetown, S. C.

FOR SALE.
SHEET METAL BUSINESS.
Located in the best and growing coal field
in West Virginia. Business is good; \$5000
to \$6000 worth of work on hand. Reason
for selling, physical condition prevents my
looking after same. Write
W. D. McCLEARY, Mgr.

BUSINESS OPPORTUNITIES

FOR SALE
MILFORD MILLS

Sixty-barrel water power flour and feed
mill, with 38 acres highly cultivated land.
Contains two dwellings and good bank
barn. Long established mill, doing good
business. Plenty water and in good grain
section. One mile from depot, on main
line Southern Railway and on state highway
system; hard-surface road. Mill machinery
in good condition. Opportunity for developing
hydro-electric power in addition to operating mill.
Very productive land, consisting of 12 acres good stand
alfalfa, 11 acres corn, 6 acres wheat, balance
in hay. Crops should make \$1000 net
this year. Will sell at bargain price of
\$15,000, including growing crops. Apply
B. LYNN ROBERTSON,
Manassas, Virginia.

FOR SALE—MANASSAS MILLS

Successful and active milling and feed
mixing business, located in northern
(Piedmont) Virginia, at the junction of
the main line of the Southern Railway with
the Harrisonburg Branch. In progressive
growing town of 1500 people. Adjoins
freight depot by platform, with space for
5 cars. All carload and less carload ship-
ments loaded from mill door; good transit
rates. Over 500,000 bushels wheat grown
within radius of 35 miles; plenty corn.
Mill building, brick; 100 feet by 40, three
stories high, with concrete basement under
all. Adjoining warehouse 60 by 40 feet
and three steel storage tanks. Capacity
flour mill, 125 barrels; meal, 300 bushels,
and mixing plant, 100 tons per 24 hours.
Nordyke and Marmon machinery. In first-
class condition. Excellent trade among
merchants and farmers. Last year busi-
ness over \$260,000. Business well organ-
ized with valuable trade-marks. To appre-
ciate this opportunity you should visit the
plant. Will sell at a bargain price. Offers
wonderful opportunity for man with some
money and ability. Plant operated by
semi-Diesel fuel oil engine; very low power
cost. Apply

MANASSAS FEED & MILLING COMPANY,
Manassas, Virginia.

FINANCIAL

CORPORATION BONDS prepared, bought
and sold; first-mortgage propositions only
entertained. **The DeLonge Company**, 1501
First National Bank Bldg., Detroit, Mich.

FACTORY SITES

FOR SALE—600 ft. facing B. & O. R. R.
and 220 ft. on Sumner Road, Washington,
D. C.; two acres, industrial zone, city water
and sewerage; fine concrete roads; 2 miles
from Capitol Bldg., offering at 30 cents per
sq. ft. Terms and offers wanted. **W. H.
Bruson**, Hotel Colonial, Philadelphia, Pa.

FACTORY SITES FREE—In Dade
County, Georgia, and Town of Trenton—
the County seat. County located in north-
west corner of State in mountainous sec-
tion; Lookout Valley runs through it north
and south, with Sand Mountain on west
side and the famous Lookout Mountain on
the east side. Valley lands are of lime-
stone soil, productive of grains, hay, etc.,
and the sandy mountain lands adapted to
fruits, vegetables, cotton, hay and some
grains. Mineral and free stone water.
Alabama Great Southern Railroad traverses
County, running from Chattanooga, Ten-
nessee, to Birmingham, Alabama. Chat-
tanooga-Birmingham Highway, now in process
of paving, also passes through, and when
completed will be one of the finest roads
in this section of the State. No finer climate
for summer resorts than the top of
these mountains. Land can be bought
reasonably.

Trenton has new High School and a
contract let for new Court House. We are
18 miles south of Chattanooga.

Sites free for manufacturers to right
concern; exempt from taxes for five years.
Plenty of water, and we are assured of
power if we can get some manufacturers.

Dade County Chamber of Commerce,
Trenton, Georgia.

ALABAMA HOTEL SITE

**HOTEL OR APARTMENT SITE FOR
SALE**—Three-fourths block, 211 feet front
by 156 feet deep, on principal street of
Florence, overlooking park; \$150 per foot.
Also good house and 50-foot lot, two blocks
from post office, on coming business street,
\$10,000. **P. B. HILL**, Owner, Box 512,
Florence, Ala.

INDUSTRIAL PLANTS

FOR SALE—Three modern Arctic Pe-
nall Ice Plants in Miami, Florida, and vicinity.
Address O. J. Morris Ice & Cold Stge.
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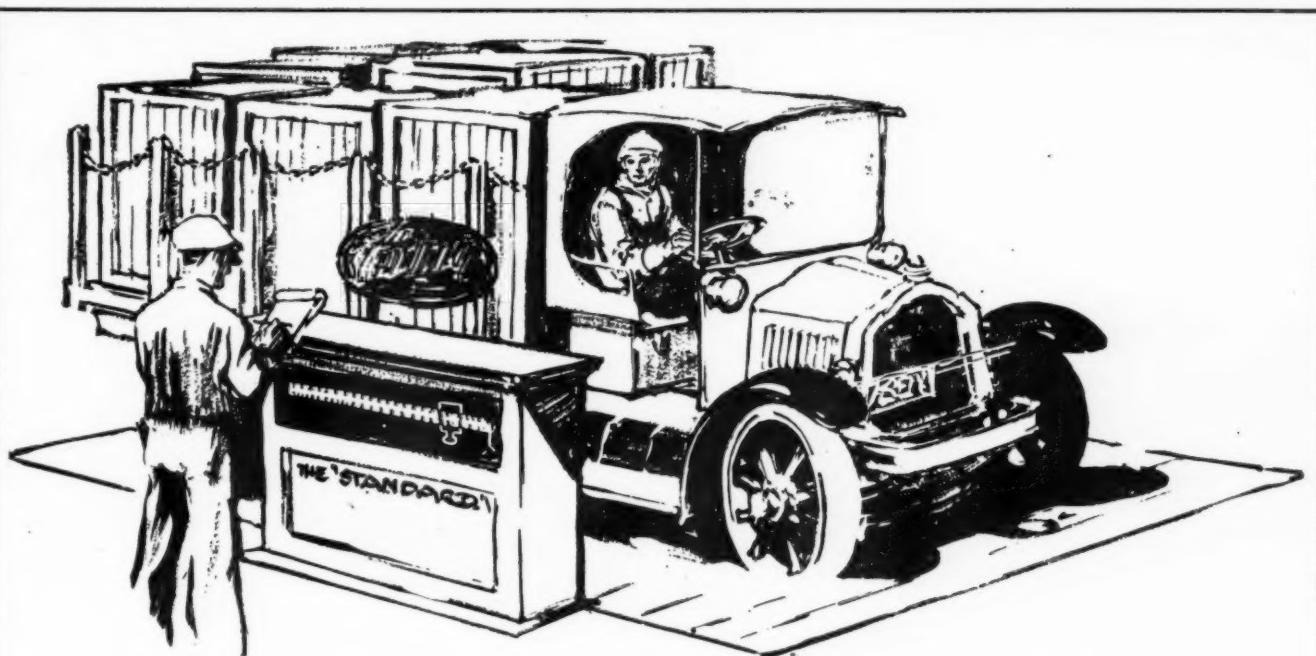
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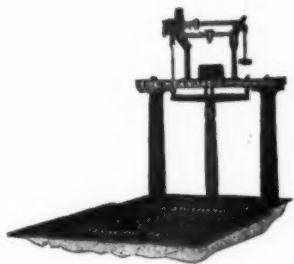
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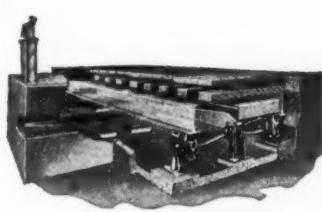
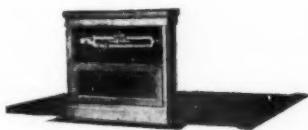
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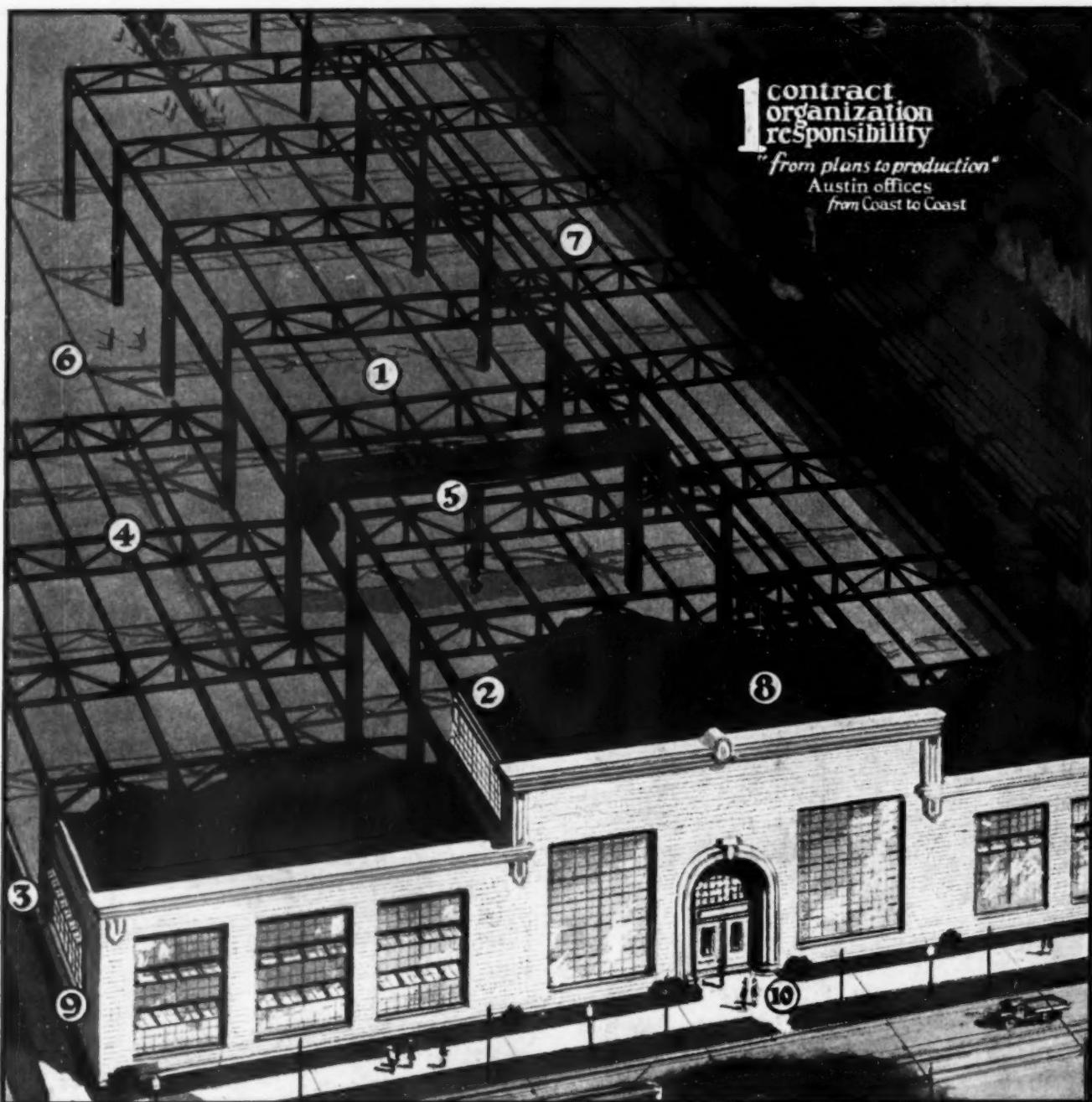
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